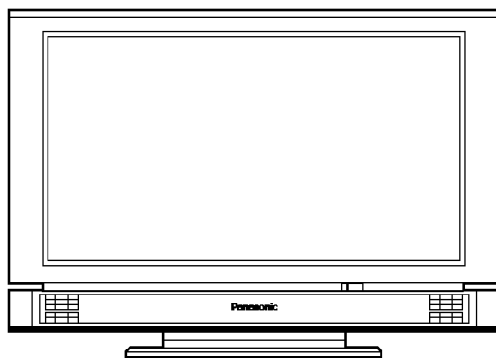


Service Manual

22" LCD TV



TC-22LT1

FL2 Chassis

Power Source

AC 100~240V, 50/60Hz

Power Consumption

Average use: 69W (Maximum current 0.7A)

Stand-by condition: 4W (at 120-240V)

TV set

DC 15V, 4.1 A max.

LCD

22-inch, 16:9 aspect ratio LCD panel

Screen Size

19.17" (487mm)(W) x 10.79" (274mm)(H)

Channel Capability-181

VHF-12: UHF-56: Cable-125

Sound

Speaker

Tweeter (4 x 7cm 2pcs, 8Ω), Woofer (Ø5cm 2pcs, 4Ω)

Audio Output

9W (2.5W+2.5W+4.0W (Woofer)), 10%THD, 50Hz~20kHz

Headphones

M3(3.5 mm) Jack x 1

FEATURES

3D Y/C Digital comb Filter

Aero-Hammer® Double Woofer System (2Way 4Speaker System)

CLOSED CAPTION V-Chip

Accessories Supplied

Remote control Transmitter N2QAFC000006

Battery: CR2025 x 1

AC Adaptor: N0JZHK000004

AC Cord: K2CA2EA00005

Operating Conditions

Temperature: 41°F-95°F(5-35°C)

Humidity: 5%-90% RH (non-condensing)

Connection Terminals

Video In

VIDEO

RCA PIN Type x 2 1.0Vp-p

S-VIDEO

Mini DIN 4-pin x 2 Y:1Vp-p(75Ω), C: 0.286Vp-p(75Ω)

AUDIO L-R

RCA PIN Type x 2 1.0Vp-p

COMPONENT IN VIDEO

D Type Connector x 2 Y, P_B, P_R

AUDIO L-R

RCA PIN Type x 2 0.5Vrms

AUDIO OUT

M3 Stereo Jack x 1 0.5Vrms

Dimensions (W x D x H)

Including TV Stand

23.07" (586mm) x 9.45" (240mm) x 16.69"(424mm)

TV Set Only

23.07" (586mm) x 2.64" (67mm) x 15.27"(388mm)

Weight (Mass)

25.35lb. (11.5kg) Net

Note:

Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M}\Omega$ and $5.2\text{M}\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

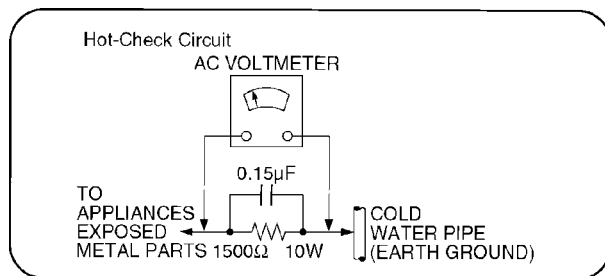


Figure 1

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k}\Omega$, 10 watts resistor, in parallel with a $0.15\mu\text{F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3 Self-check function

3.1. How to access

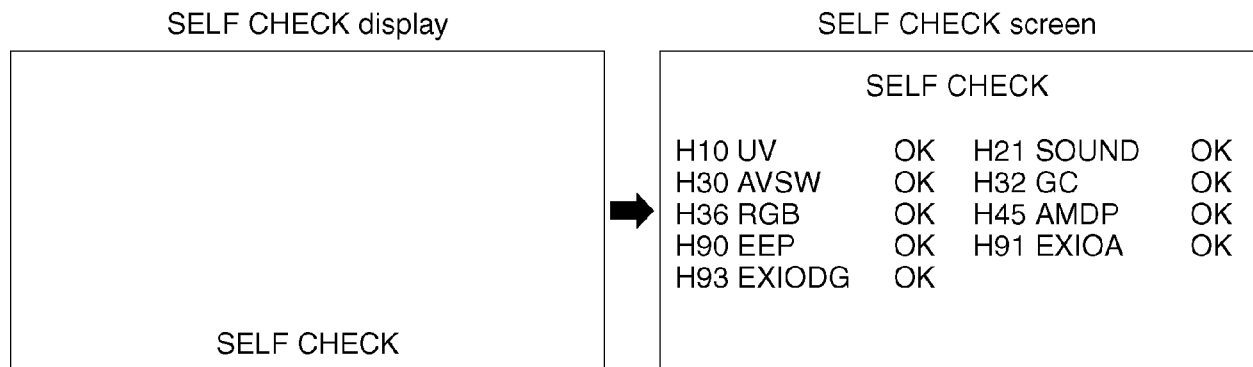
3.1.1. Access

While pressing [VOL-] button on the main unit, press [SLEEP] button on the remote control unit simultaneously.

3.1.2. Exit

When any button, like channel selection, is pressed on the remote control unit, the display returns to the normal screen.

3.2. Screen display

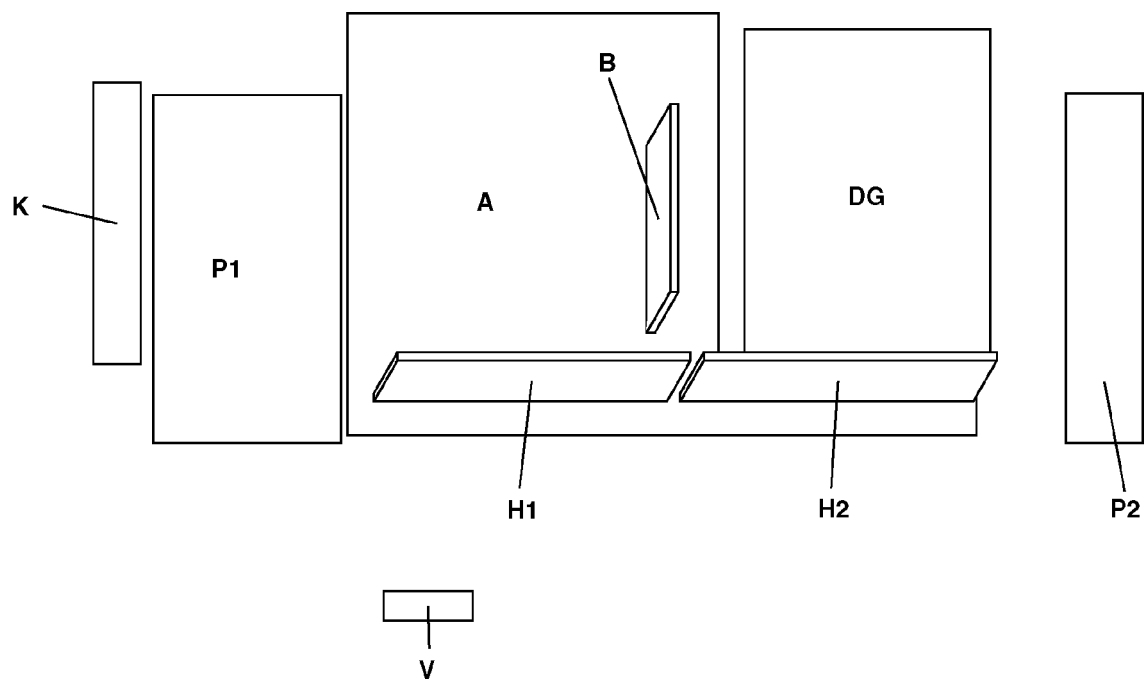


At the time of a fault, the red NG illumination appears in place of the green OK.

3.3. Display phenomenon and treatment method

Display symbol	Self-check	Phenomenon/condition	Treatment method	PCB
H10	NG in red	No TV picture No audio output	Replace TNR001.	B-PCB
H21	NG in red	No audio output	Replace IC2301.	Main PCB
H30	NG in red	No video output (Black screen) No audio output	Replace IC4003.	Main PCB
H32	No OSD	Horizontal black and white stripes on screen with enhanced back light	Replace digital module.	Digital module
H36	No OSD	White lines on black screen (No synchronization)	Replace digital module.	Digital module
H45	NG in red	No video output, but OSD appears and audio output is available.	Replace digital module.	Digital module
H90	Power interrupted by self-check	Power interrupted by self-check	Replace IC1005.	Main PCB
H91	No OSD	No screen display. LED red only.	Replace IC1007.	Main PCB
H93	NG in red	No video output, but OSD appears and audio output is available.	Replace digital module.	Digital module

4 Chasis Board Layout



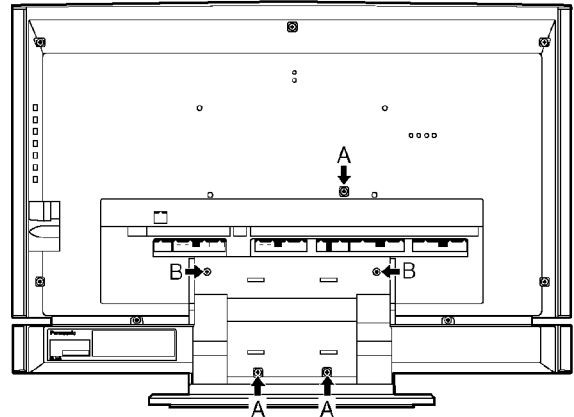
Board Name	Function
A - Board	Main (DC Power Supply,Audio,Micro Processor,Input Select)
B - Board	Tuner
DG - Board	Global Core,AMDP,RGB Processor
H1 - Board	DC Power Jack,AV Connector
H2 - Board	AV Connector
K - Board	Switch
P1 - Board	Back Light Inverter
P2 - Board	Back Light Inverter
V - Board	RM,LED

5 Servicing method

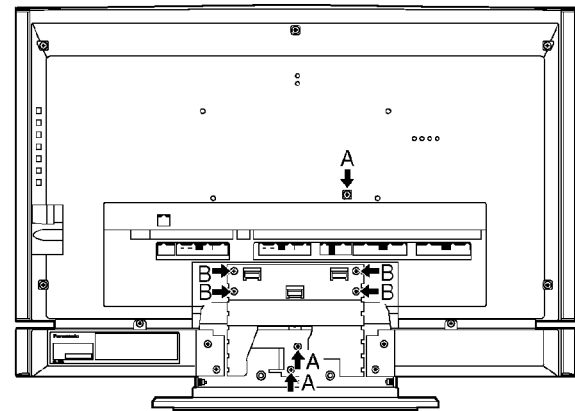
5.1. Removing tilt base

Remove the fixing screws A (2pcs).

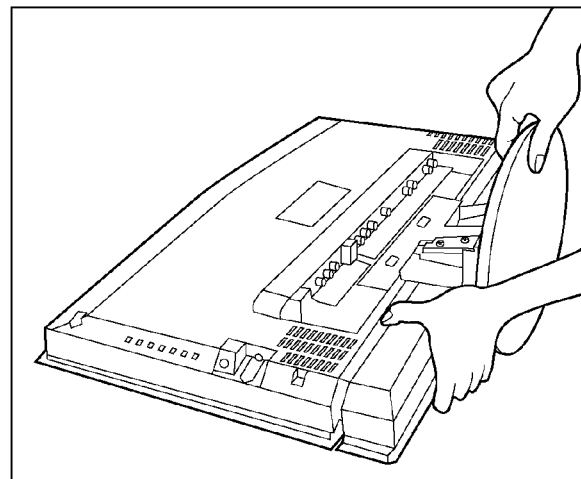
- (1) Remove the fixing screws B (2pcs).
- (2) Pull up the tilt cover (rear) in such a way as to turn its lower part upward with its upper part as a pivot.
Remove the tilt cover while disengaging the hooks (4



- (3) Lay down the main unit so that the rear panel faces upward, and remove the fixing screws A (2pcs).
- (4) Remove the fixing screws B (4pcs).

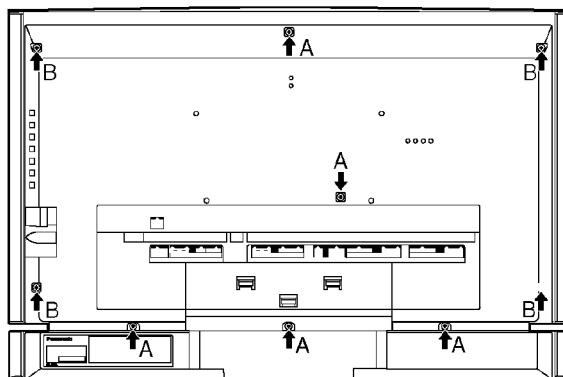


- (5) While supporting the unit with hand, pull out the tilt base. Remove the tilt base while disengaging the hooks (3 locations).



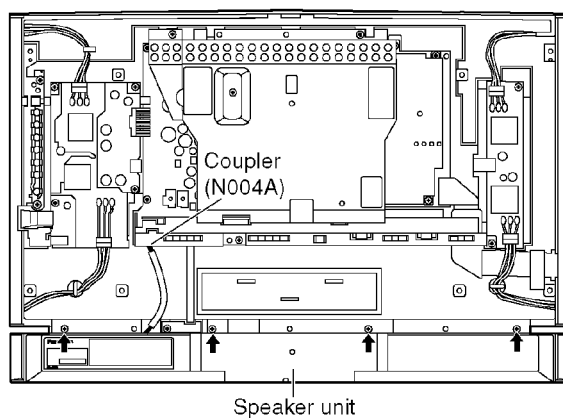
5.2. Removing rear panel

- (1) Remove the tilt base. (See 5.1.)
- (2) Remove the fixing screws A (5pcs) and B (4pcs), and detach the rear panel.



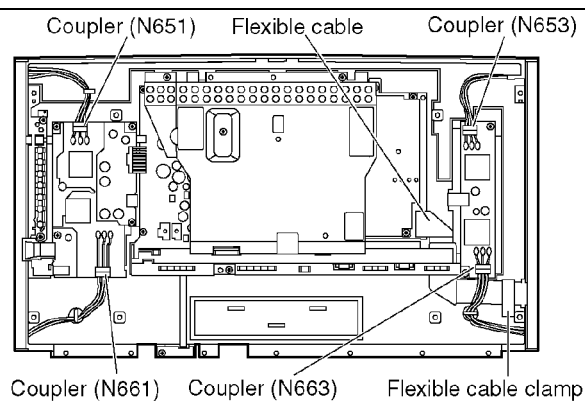
5.3. Removing speaker unit

- (1) Remove the rear panel. (See 5.2.)
- (2) Remove the fixing screws (4pcs).
- (3) Disconnect the coupler (N004A) and remove the speaker unit.

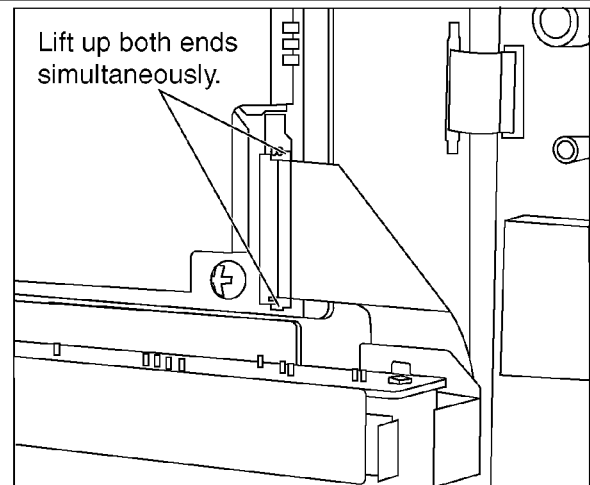


5.4. Removing chassis

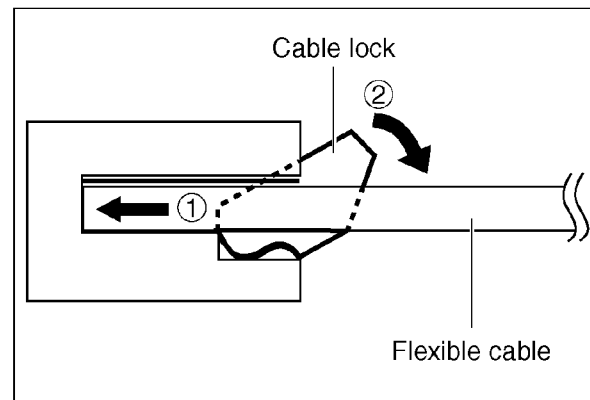
- (1) Remove the speaker unit. (See 5.3.)
- (2) Disconnect the couplers (N651, N661, N653 and N663).
- (3) Disconnect the flexible cable, and unlock the flexible cable clamp to free the cable.



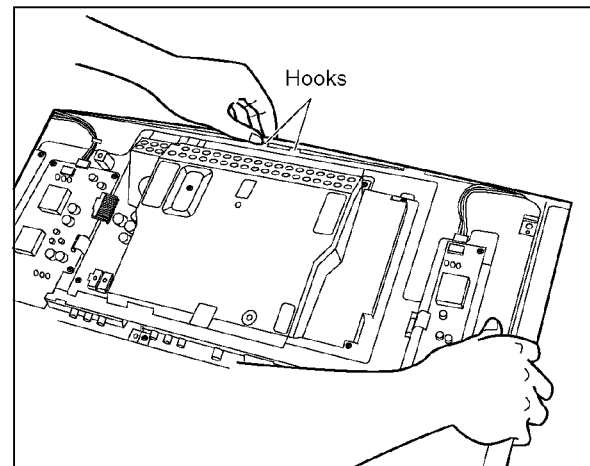
- * Disconnecting flexible cable from the coupler
Lift up both ends of the cable lock (brown colored) simultaneously to release the locking. Once the flat cable is disconnected from the coupler, the cable lock tends to detach from the coupler easily. Due precaution should be paid on it.



- * Reconnecting flexible cable to the coupler
Attach the cable lock (brown) to the coupler (white) with its both ends being pulled up. Insert the flat cable into the coupler over the cable lock until the cable stops firmly at the coupler end. Press down both ends of the cable lock until their upper faces are positioned flat to lock the cable.

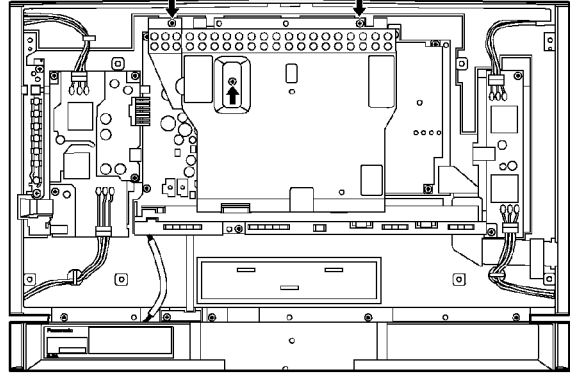


- (4) As shown in the figure, remove the chassis while disengaging the two hooks at top center of the chassis from the front panel.
- * The LCD panel is left lay on the front panel. (The LCD panel is easily removable.) Be careful not to damage the LCD panel.

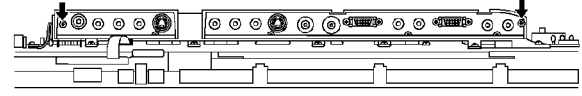


5.5. Removing main PCB

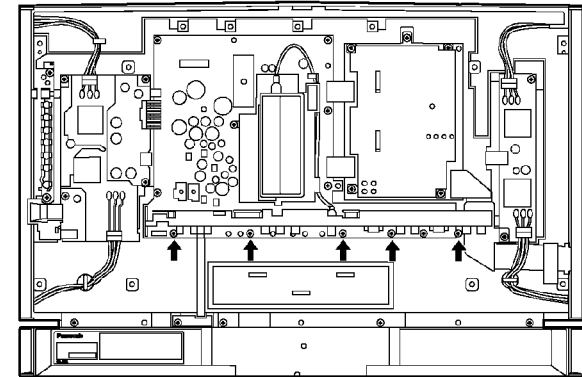
- (1) Remove the rear panel. (See 5.2.)
- (2) Remove the fixing screws (3pcs). Lift up the upper part of the main shield and detach it while disengaging the hooks (3 locations) at the lower part.



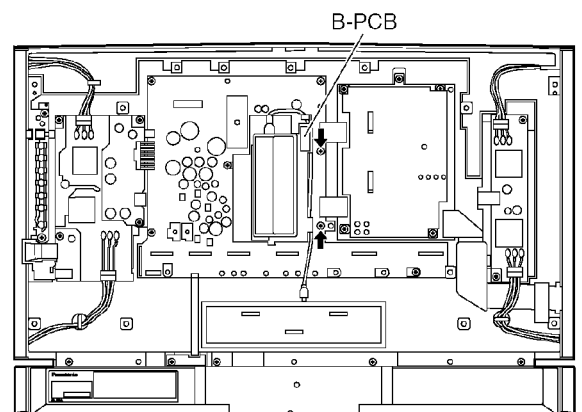
- (3) Remove the fixing screws (2pcs), and dismount the terminal covers (both right and left).
* Pull up the terminal cover at the side unscrewed and disengage the hooks at the opposite to remove the terminal cover.



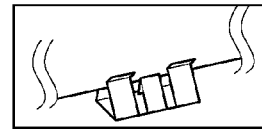
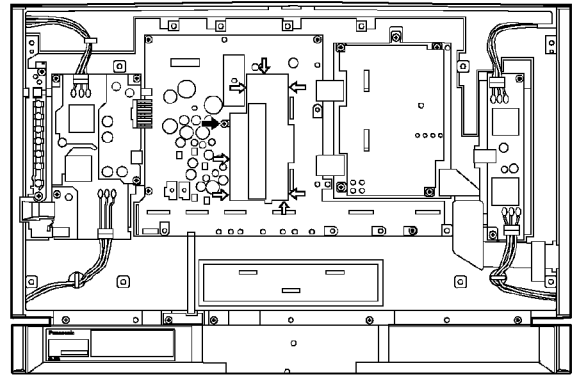
- (4) Remove the fixing screws (5pcs).
- (5) Lift the terminal block to remove while disconnecting the couplers (N001, N002, N015, N022, N003 and N023) between the terminal block and the main PCB.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.
- (6) Disconnect the cable tied to the antenna terminal (rear side) of the terminal block, and remove the terminal block.



- (7) Remove the fixing screws (2pcs). While disconnecting the couplers (N012 and N013) between the B-PCB (with tuner assembly) and the main PCB, dismount the B-PCB from the main PCB.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.

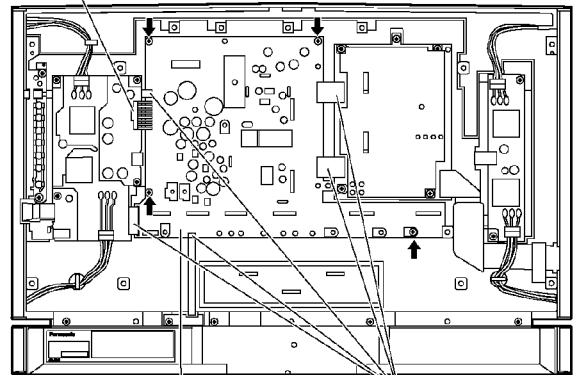


- (8) Remove the fixing screw (1pc). Detach the shield while disengaging the shield clips (7 locations).



- (9) Lift up the coupler (N009A) by holding its projection to remove it (from N009B).
- (10) Disconnect the flexible cables (5 locations).
* When disconnecting, pull out the cable straight (perpendicular to the coupler face).
- (11) Remove the fixing screws (4pcs) and dismount the main PCB.

Coupler (N009A)

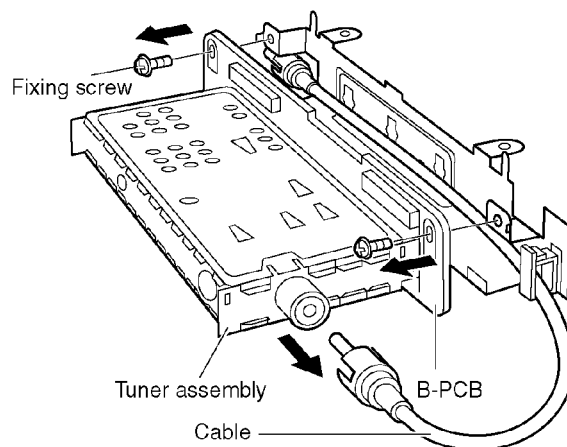


Main PCB

Flexible cable

5.6. Removing B-PCB (with tuner assembly)

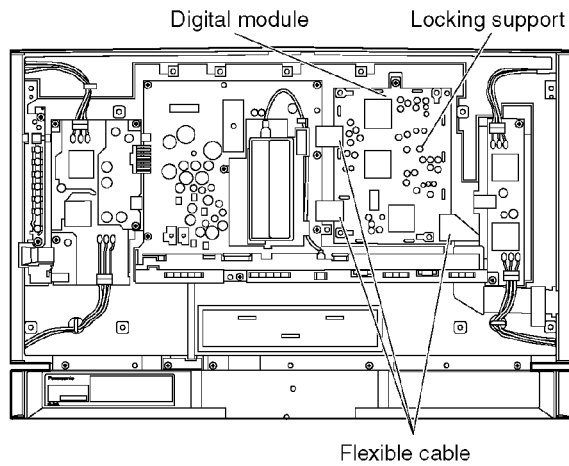
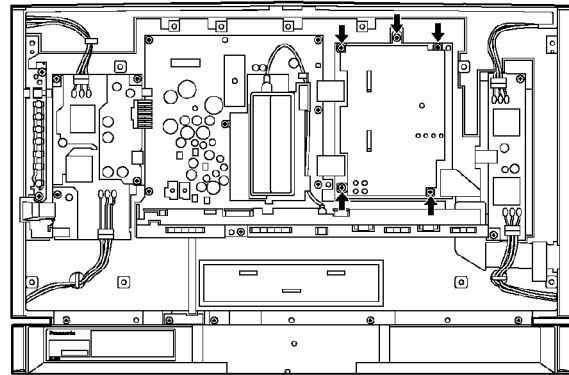
- (1) Disconnect the B-PCB (with tuner assembly) with metal fitting. (See 5.5. procedures 1-2 and 6-7.)
- (2) Disconnect the cable tied to the antenna terminal of the tuner.
- (3) Remove the fixing screws (2pcs), and separate the B-PCB (with tuner assembly).



5.7. Removing digital module

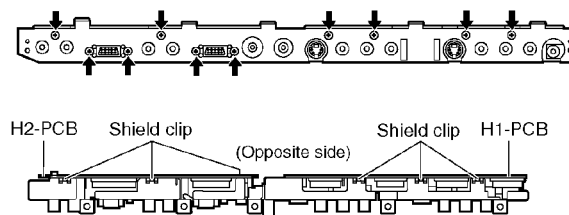
- (1) Remove the rear panel. (See 5.2.)
- (2) Detach the main shield. (See 5.5, procedure 2.)
- (3) Remove the fixing screws (5pcs), and detach the shield while releasing the shield clips (10 locations).
- (4) Disconnect the flexible cables (3 locations).
 - * When disconnecting and reconnecting the flexible cables, refer to the notes in the procedure (3) in 5.4. Removing chassis.

When disconnecting the two flexible cables from the main PCB, pull out the cables straight (perpendicular to the coupler face).
- (5) Unlock the locking support and remove the digital module.



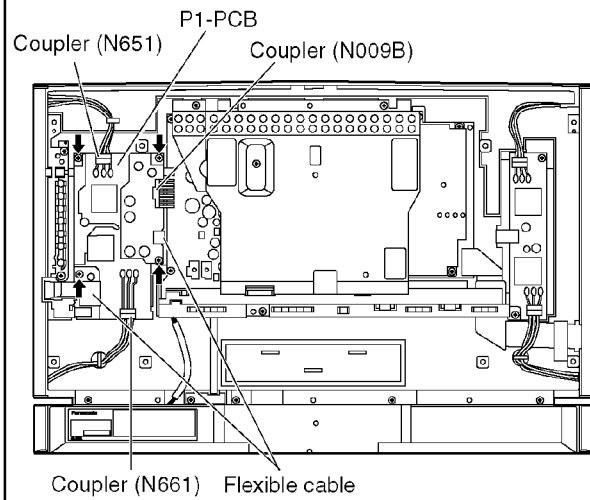
5.8. Removing H1-PCB and H2-PCB

- (1) Remove the terminal block. (See 5.5, procedures 1-6.)
- (2) Remove the fixing screws (4pcs/6pcs).
- (3) Release the shield clips (3 locations) and dismount H1-PCB.
- (4) Release the shield clips (3 locations) and dismount H2-PCB.



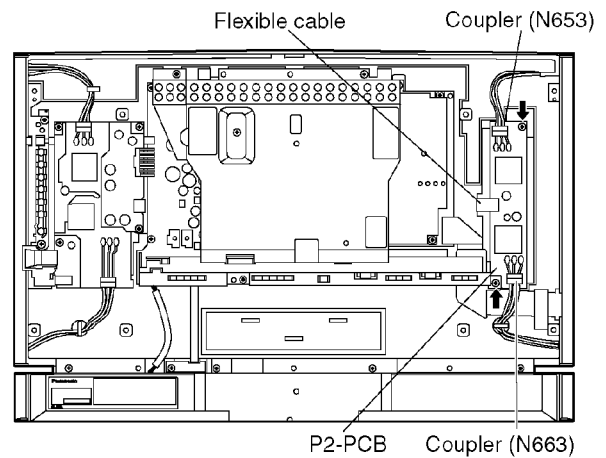
5.9. Removing P1-PCB

- (1) Remove the rear panel. (See 5.2.)
- (2) Disconnect the couplers (N009B, N651 and N661).
- (3) Disconnect the flexible cables (2 locations).
- (4) Detach the power button from the power switch.
- (5) Remove the fixing screws (4pcs) and dismount P1-PCB.



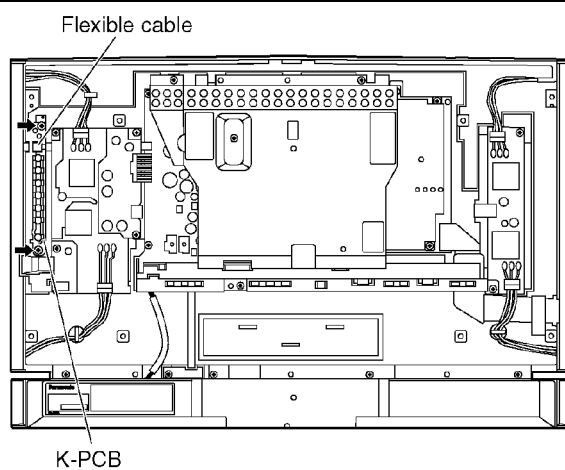
5.10. Removing P2-PCB

- (1) Remove the rear panel. (See 5.2.)
- (2) Disconnect the couplers (N653 and N663).
- (3) Disconnect the flexible cable.
- (4) Remove the fixing screws (2pcs) and detach the shield and dismount P2-PCB.



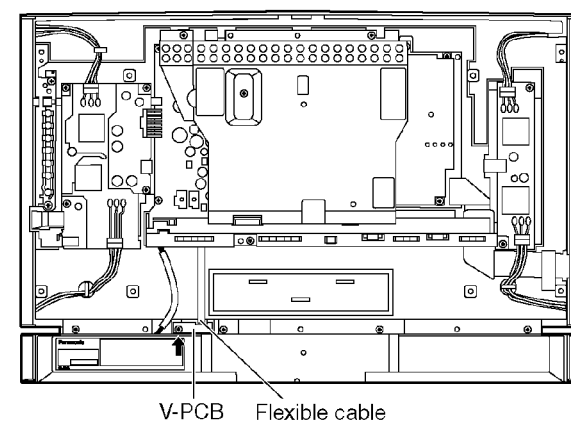
5.11. Removing K-PCB

- (1) Remove the rear panel. (See 5.2.)
- (2) Remove the fixing screws (2pcs).
- (3) Disconnect the flexible cable and dismount K-PCB.



5.12. Removing V-PCB

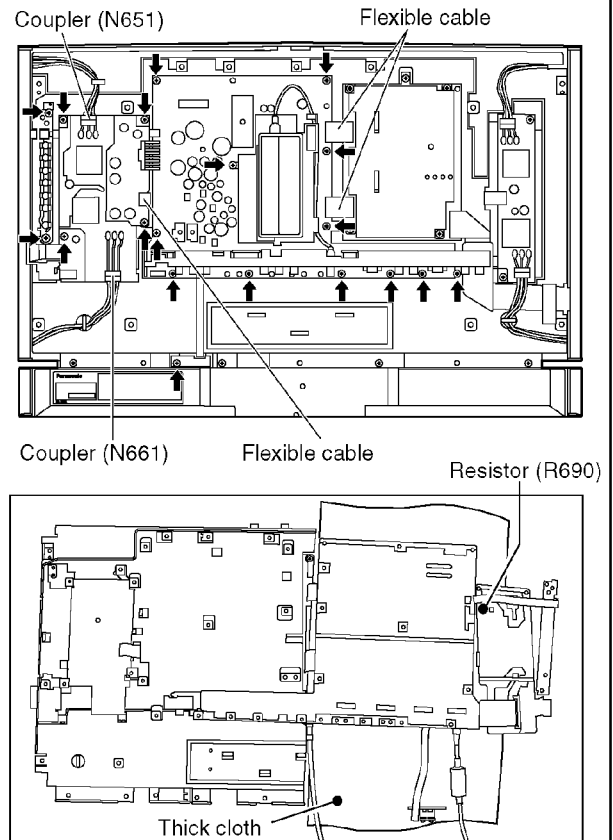
- (1) Remove the rear panel. (See 5.2.)
- (2) Remove the fixing screw (1pc).
- (3) Disconnect the flexible cable and dismount V-PCB.



5.13. Main PCB servicing

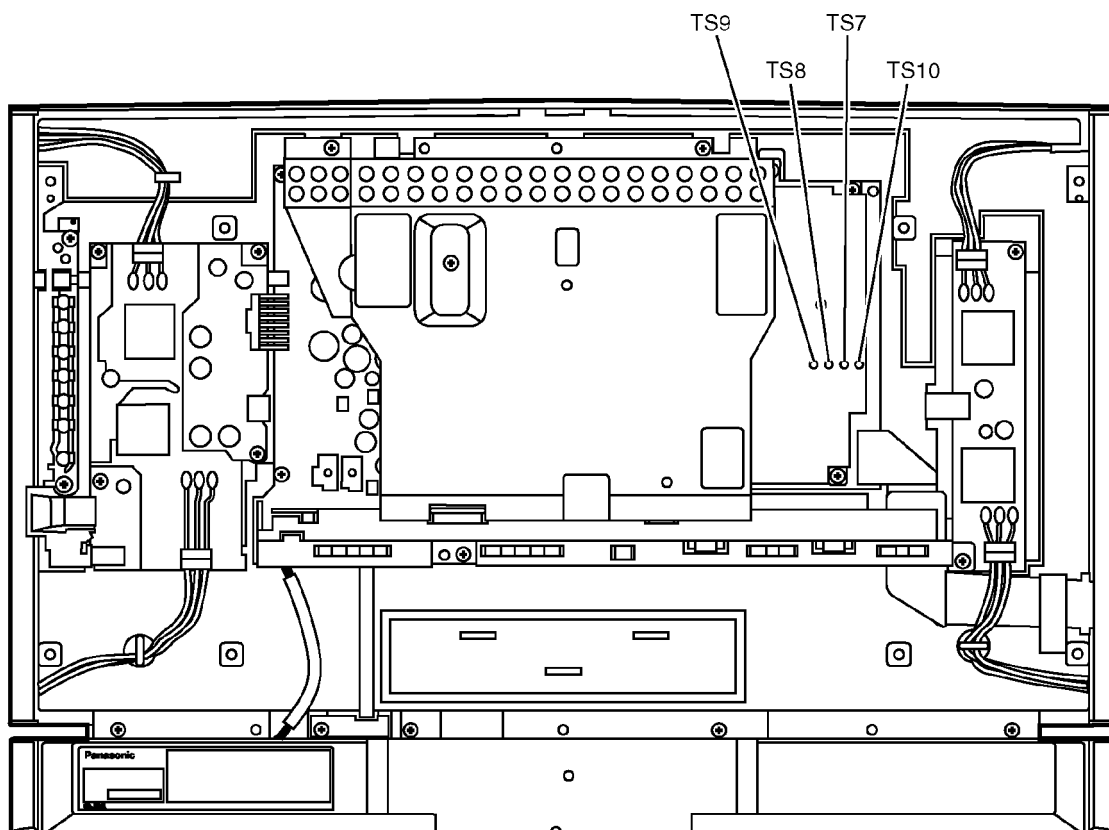
- (1) Remove the rear panel, the main shield and the terminal covers (right and left). (See 5.5. procedures 1-3.)
 - (2) Remove the fixing screws (19pcs).
 - (3) Disconnect the couplers (N651 and N661) and the flexible cable (1 location) of P1-PCB.
 - (4) Disconnect the flexible cables (2 locations) between the main PCB and the digital module.
- * When disconnecting, pull out the cable straight (perpendicular to the coupler face).

- (5) Cover the digital module with thick cloth for insulation and protection, and lay the main PCB and other PCBs upside down.
- * The figure illustrates the status after chassis removal.
- (6) Remove the resistor (R690) on P1-PCB, and earth (connect to GND) the pin (10) of the connector (N009B).
- * The protection circuit is activated upon disconnection of the coupler N651. The above procedure will cancel the activation of the protection circuit.



6 Adjustment method

6.1. Test Point Location



6.2. Service adjustment mode

As shown in the table below, adjustment is required when some parts have been exchanged.

Exchange part Adjustment	Memory IC1005	Digital module	Back light	LCD panel	Video signal processing IC9022
Main adjustment	△	△	△	△	△
Sub adjustment	△	△	△	△	△
Gamma correction	△	△	●	●	△



: Always requires adjustment



: Confirming with color bar signal, etc., adjust as required

6.2.1. How to enter into service adjustment mode

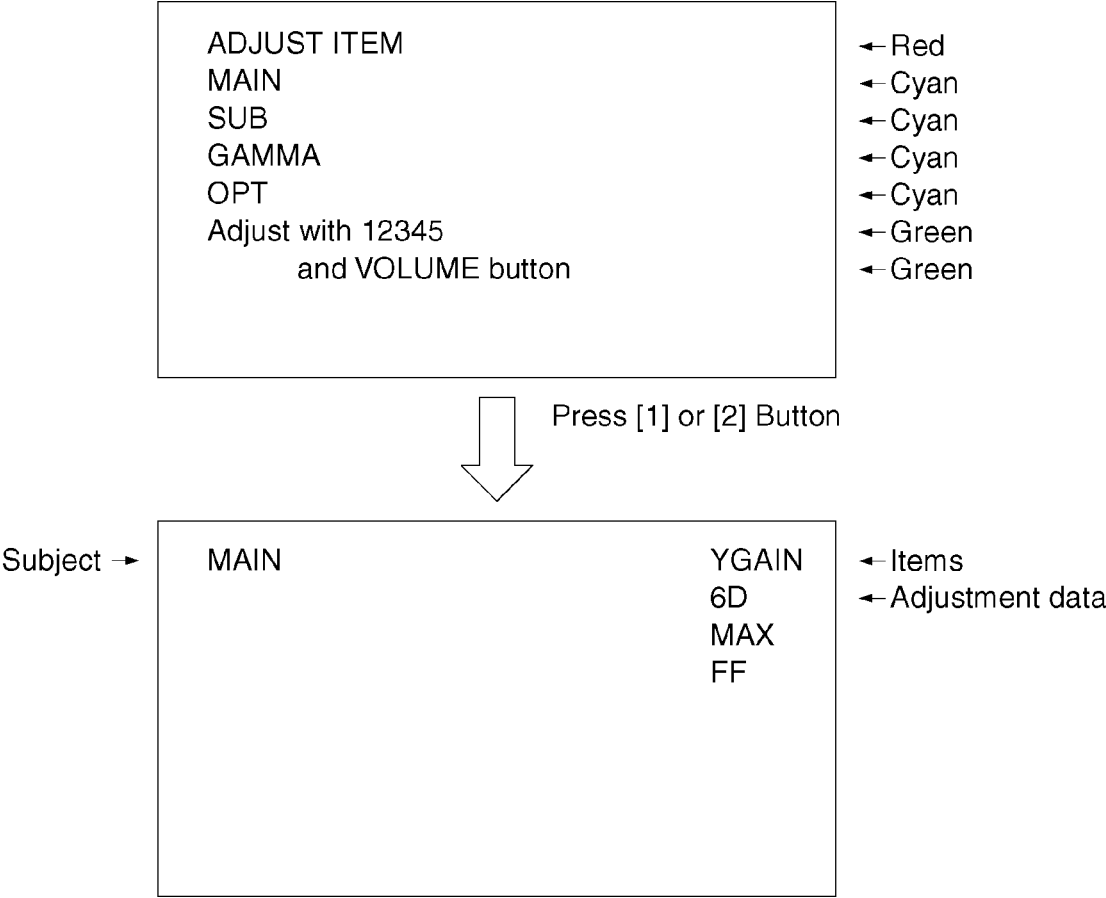
While pressing [VOLUME-] button of the main unit, press [DISPLAY] button of the remote control unit three times in a row (within 2 seconds).

or

Adjust VOLUME "zero" and set the CATV channel to 124ch and set SLEEP Button (turn on the sleep).

Then VOLUME DOWN button [-] on the TV set.

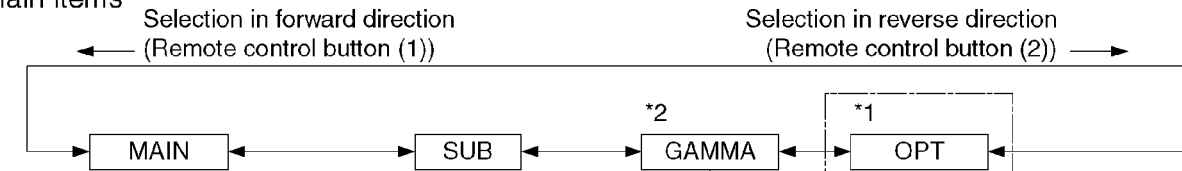
6.2.2. Screen display (Initial screen of the service adjustment mode)



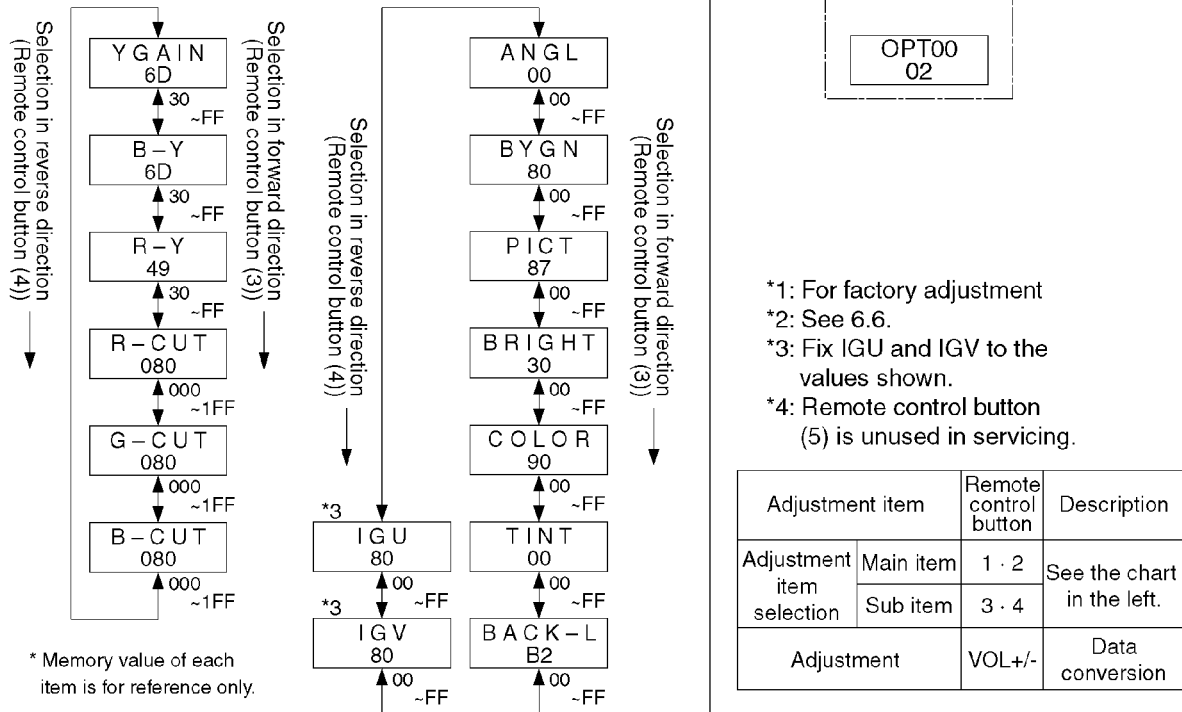
6.2.3. Contents of service adjustment mode

The adjustment items comprise of the following main items and sub items.
The adjustment is shown as a hexadecimal number.

Main items



Sub items



Gamma correction	TEMP	NR,C1,C2 C3,W1,W2		
	RTANA	30		GAXD A0
	RAXA	20		GTANE 3C
	RTANB	36		GAXE C0
	RAXB	F9		GTANF 44
	RTANC	3C		GAXF 50
	RAXC	FA		GTANG 4C
	RTAND	3A		GAXG F0
	RAXD	FB		GTANH 95
	RTANE	3C		BTANA 26
	RAXE	FC		BAXA 20
	RTANF	44		BTANB 26
	RAXF	FD		BAXB 40
	RTANG	48		BTANC 30
	RAXG	FE		BAXC 60
	RTANH	84		BTAND 33
	GTANA	2E		BAXD A0
	GAXA	20		BTANE 38
	GTANB	32		BAXE C0
	GAXB	40		BTANF 40
	GTANC	3A		BAXF E0
	GAXC	60		BTANG 5C
	GTAND	39		BAXG F0
				BTANH EF

For factory adjustment only. Do not change the value. (Reference)

6.2.4. How to terminate service adjustment mode

Press POWER button of the remote control unit.

* By switching off the power, the adjusted value is written into the nonvolatile memory.

6.3. RF video level adjustment

6.3.1. Preparation

Connect RF signal generator to antenna terminal (VHF/UHF).

Video adjustment

PICTURE ADJUST: NORMAL

PICTURE MENU: DYNAMIC

LCD AI : OFF

Enter into the service adjustment mode.

6.3.2. Input signal

100% color bar signal

6.3.3. Measuring equipment and connection point

Oscilloscope

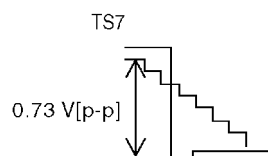
Y GAIN: TS7(+) - TS10(-)

B-Y: TS8(+) - TS10(-)

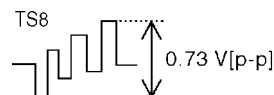
R-Y: TS9(+) - TS10(-)

6.3.4. Adjustment method and value

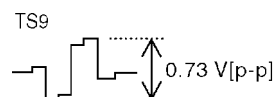
1. Select the main adjustment and then YGAIN.
2. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the MAX to become D4.
3. Measure the waveform amplitude (from pedestal to white level) at TS7. (Reference: 0.73 Vp-p)



4. Select the main adjustment and then B-Y.
5. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS8 to become identical to the value measured in 3.



6. Select the main adjustment and then R-Y.
7. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS9 to become identical to the value measured in 3.



6.4. Component input video level adjustment

6.4.1. Preparation

Connect component signal generator to D2 terminal.

* This adjustment can be performed with the component signals (Y, CB and CR) produced by DVD equipment.

Video adjustment

PICTURE ADJUST: NORMAL

PICTURE MENU: DYNAMIC

LCD AI : OFF

Enter into the service adjustment mode.

6.4.2. Input signal

100% color bar signal

6.4.3. Measuring equipment and connection point

Oscilloscope

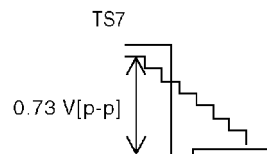
Y GAIN: TS7(+) - TS10(-)

B-Y: TS8(+) - TS10(-)

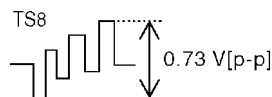
R-Y: TS9(+) - TS10(-)

6.4.4. Adjustment method and value

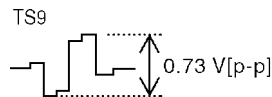
1. Select the main adjustment and then YGAIN.
2. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the MAX to become D4.
3. Measure the waveform amplitude (from pedestal to white level) at TS7. (Reference: 0.73 Vp-p)



4. Select the main adjustment and then B-Y.
5. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS8 to become identical to the value measured in 3.



6. Select the main adjustment and then R-Y.
7. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS9 to become identical to the value measured in 3.



6.5. Video input video level adjustment

6.5.1. Preparation

Connect NTSC signal generator to video input terminal with connector cable.

Video adjustment

PICTURE ADJUST: NORMAL

PICTURE MENU: DYNAMIC

LCD AI : OFF

Enter into the service adjustment mode.

6.5.2. Input signal

100% color bar signal

6.5.3. Measuring equipment and connection point

Oscilloscope

Y GAIN: TS7(+) - TS10(-)

B-Y: TS8(+) - TS10(-)

R-Y: TS9(+) - TS10(-)

6.5.4. Adjustment method and value

1. Select the main adjustment and then YGAIN.
2. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the MAX to become D4.
3. Measure the waveform amplitude (from pedestal to white level) at TS7.
* Refer to 6.4.4. for reference waveform.
4. Select the main adjustment and then B-Y.
5. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS8 to become identical to the value measured in 3.
6. Select the main adjustment and then R-Y.
7. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS9 to become identical to the value measured in 3.

6.6. Video input sub color adjustment

6.6.1. Preparation

Connect S video signal generator to video input (S2) terminal.

Video adjustment

PICTURE ADJUST: NORMAL

PICTURE MENU: DYNAMIC

LCD AI : OFF

Enter into the service adjustment mode.

6.6.2. Input signal

100% color bar signal

6.6.3. Measuring equipment and connection point

Oscilloscope

Y GAIN: TS7(+) - TS10(-)

B-Y: TS8(+) - TS10(-)

R-Y: TS9(+) - TS10(-)

6.6.4. Adjustment method and value

1. Select the main adjustment and then YGAIN.
2. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the MAX to become D4.
3. Measure the waveform amplitude (from pedestal to white level) at TS7.
* Refer to 6.4.4. for reference waveform.
4. Select the main adjustment and then B-Y.
5. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS8 to become identical to the value measured in 3.
6. Select the main adjustment and then R-Y.
7. Using [VOL+] and [VOL-] buttons of the remote control unit, adjust the amplitude at TS9 to become identical to the value measured in 3.

7 Conductor Views

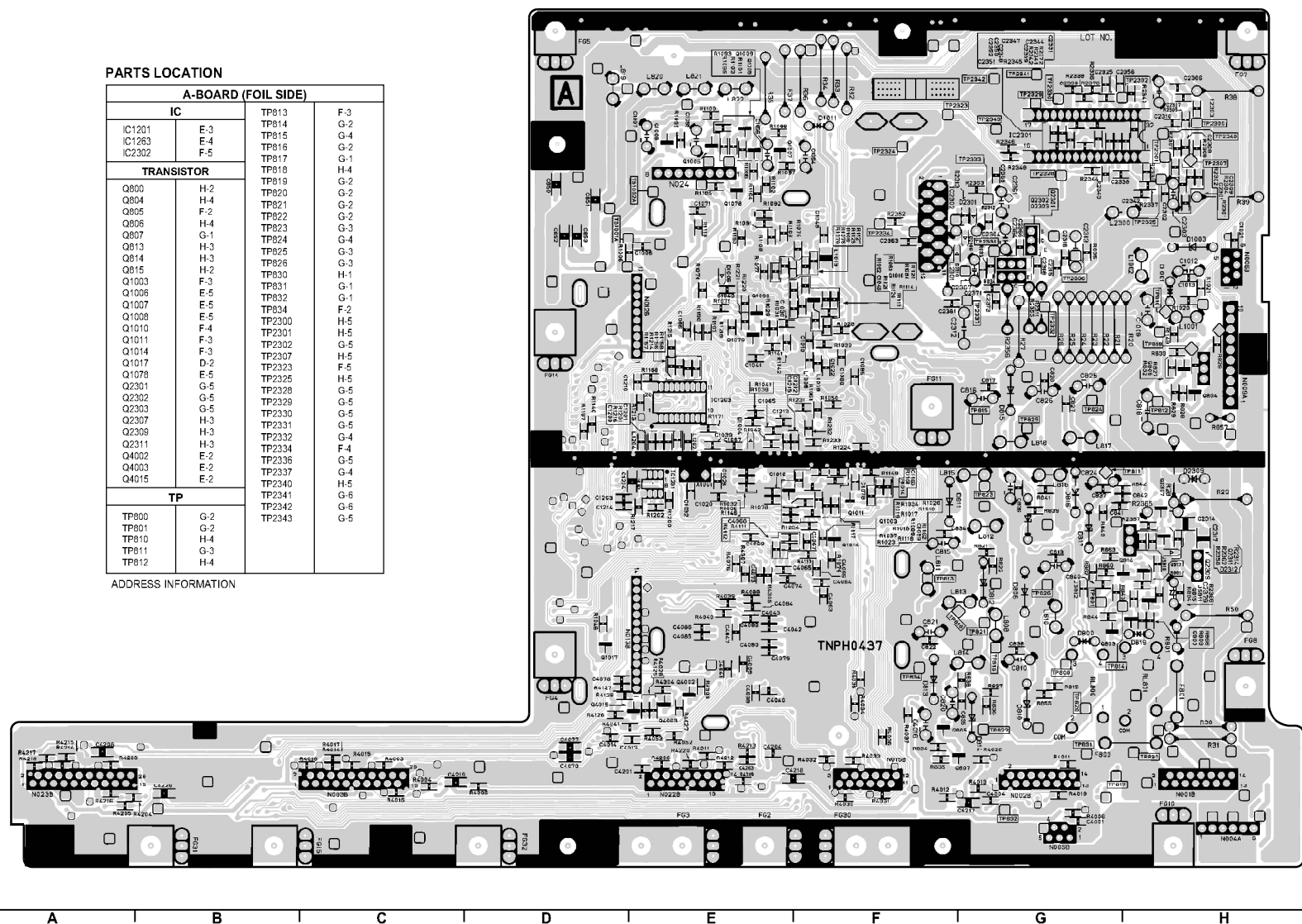
7.1 A-Board

A-BOARD (FOIL SIDE)
TNPH0437

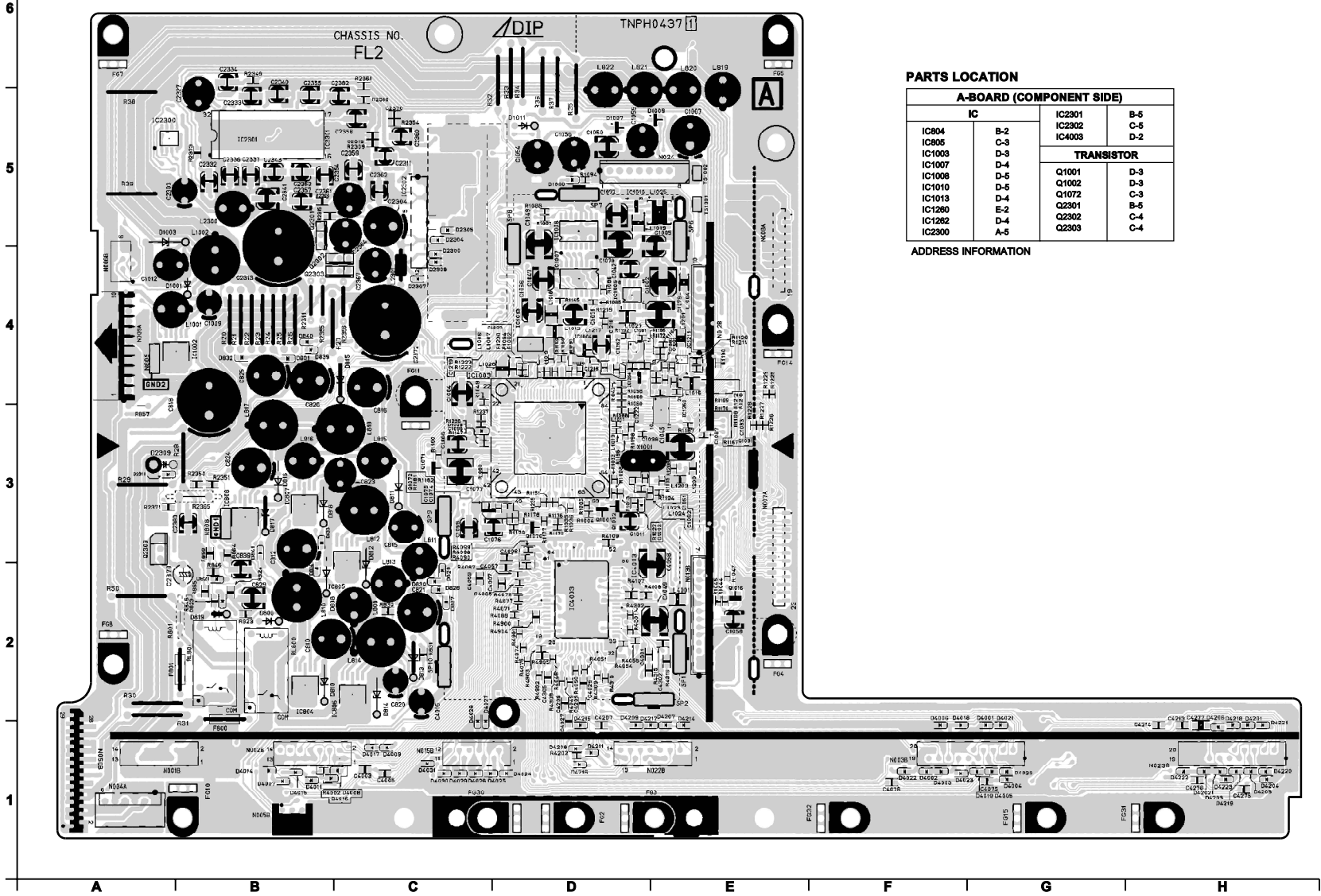
PARTS LOCATION

A-BOARD (FOIL SIDE)			
IC			
C1201	E-3	TP813	F-3
C1263	F-4	TP814	G-2
C2302	F-5	TP815	G-4
TRANSISTOR		TP816	G-2
Q800	H-2	TP817	G-1
Q804	H-4	TP818	H-4
Q805	F-2	TP819	G-2
Q806	H-4	TP820	G-2
Q807	G-1	TP821	G-2
Q813	H-3	TP822	G-2
Q814	H-3	TP823	G-3
Q815	H-2	TP824	G-4
Q1003	F-3	TP825	G-3
Q1006	E-5	TP826	G-3
Q1007	E-5	TP830	H-1
Q1008	E-5	TP831	G-1
Q1010	F-4	TP832	G-1
Q1011	F-3	TP834	F-2
Q1014	F-3	TP2300	H-5
Q1017	D-2	TP2301	H-5
Q1070	G-5	TP2302	G-5
Q2301	G-5	TP2307	H-5
Q2302	G-5	TP2323	F-5
Q2303	G-5	TP2325	H-5
Q2307	H-3	TP2328	G-5
Q2309	H-3	TP2329	G-5
Q2311	H-3	TP2330	G-5
Q4002	E-2	TP2331	G-5
Q4003	E-2	TP2332	G-4
Q4015	E-2	TP2334	F-4
TP		TP2336	G-5
TP800	G-2	TP2337	G-4
TP801	G-2	TP2340	H-5
TP810	H-4	TP2341	G-6
TP811	G-3	TP2342	G-6
TP812	H-4	TP2343	G-5

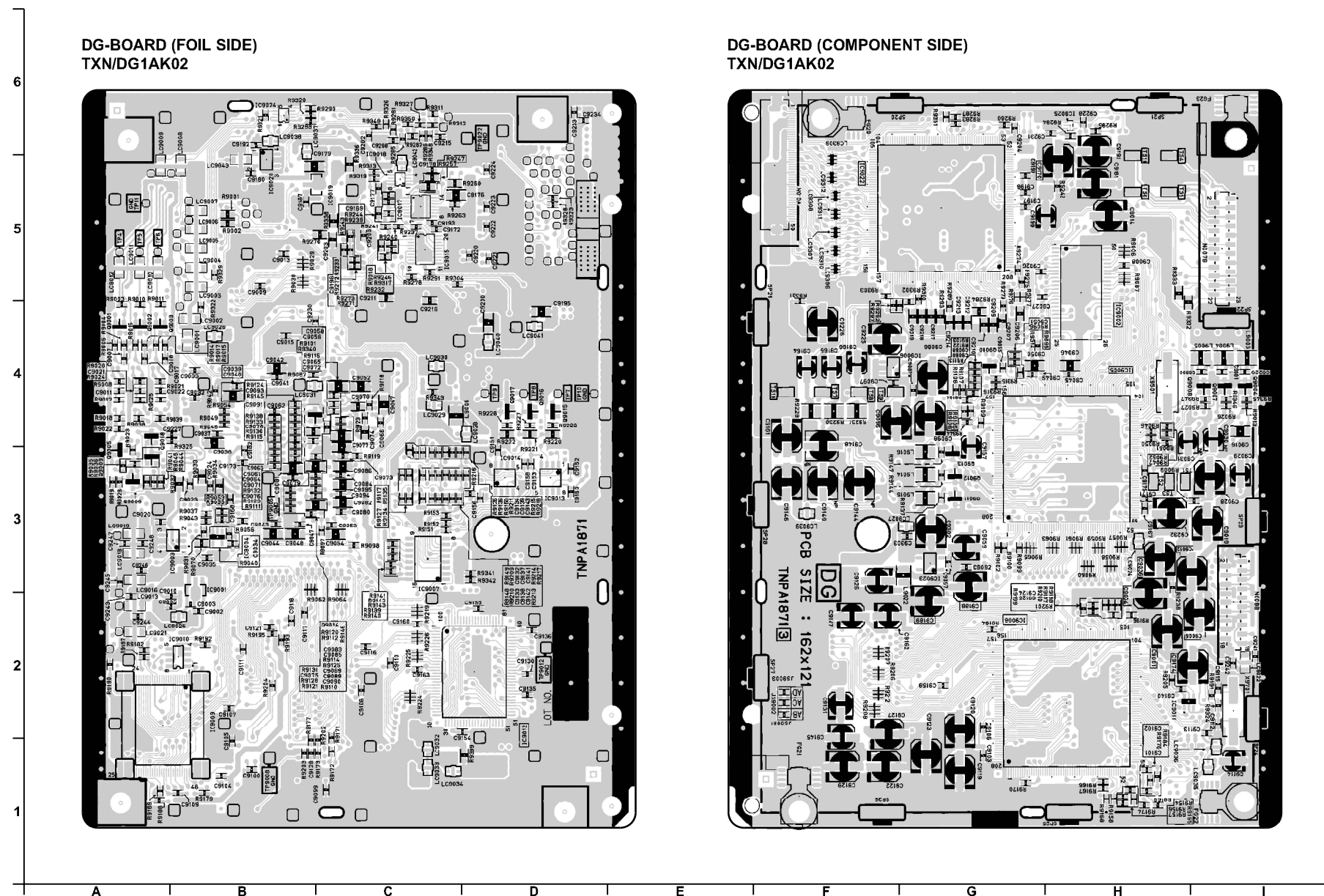
ADDRESS INFORMATION



A-BOARD (COMPONENT SIDE)
TNPH0437



7.2. DG-Board



[illegible]

8 Block and Schematic Diagrams

8.1. Schematic Diagram Notes

Important Safety Notice

Components identified by \triangle mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

\bigcirc	: Nonflammable	\boxtimes	: Metal Oxide
\triangle	: Solid	\odot	: Metal Film
\boxplus	: Wire Wound	\otimes	: Fuse:

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

\otimes	: Temperature Compensation	$\begin{array}{c} + \\ \text{---} \text{H} \text{---} \\ - \end{array}$: Electrolytic
\textcircled{M}	: Polyester	$\begin{array}{c} \text{NP} \\ \text{---} \text{H} \text{---} \\ - \end{array}$: Bipolar
\textcircled{M}	: Metalized Polyester	\textcircled{T}	: Dipped Tantalum
\boxtimes	: Polypropylene	\textcircled{Z}	: Z-Type

3. Coil

Unit of inductance is μ H, unless otherwise noted.

4. Test Point

\bigcirc : Test Point position

5. Earth Symbol

$\text{---} \text{H} \text{---}$: Chassis Earth (Cold) ∇ : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source AC 90-264V, 50/60Hz

Receiving Signal Colour Bar signal (RF)

All customer's controls Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \Rightarrow Audio \Leftrightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

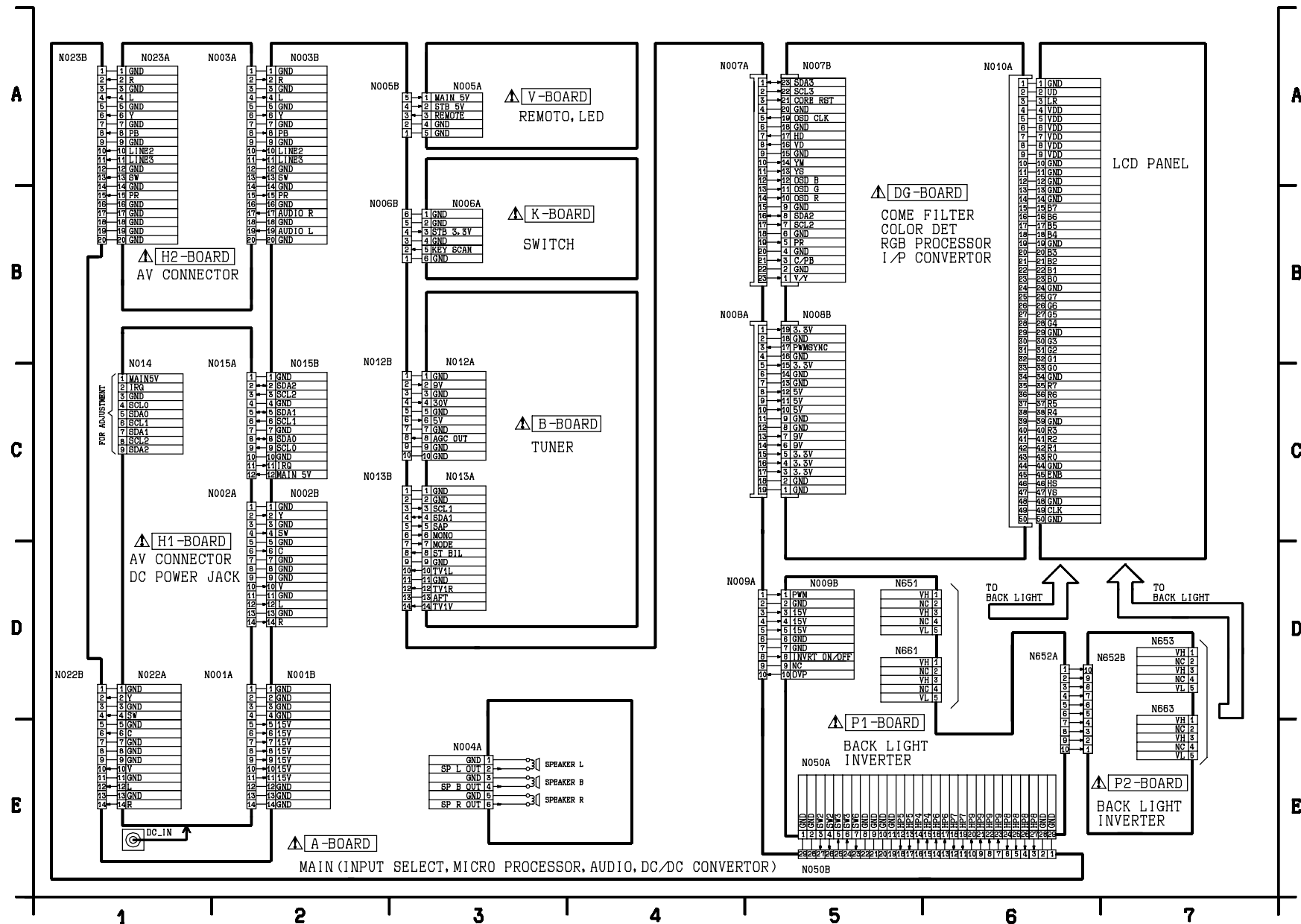
- The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

All circuits, except the Power Circuit, are cold.

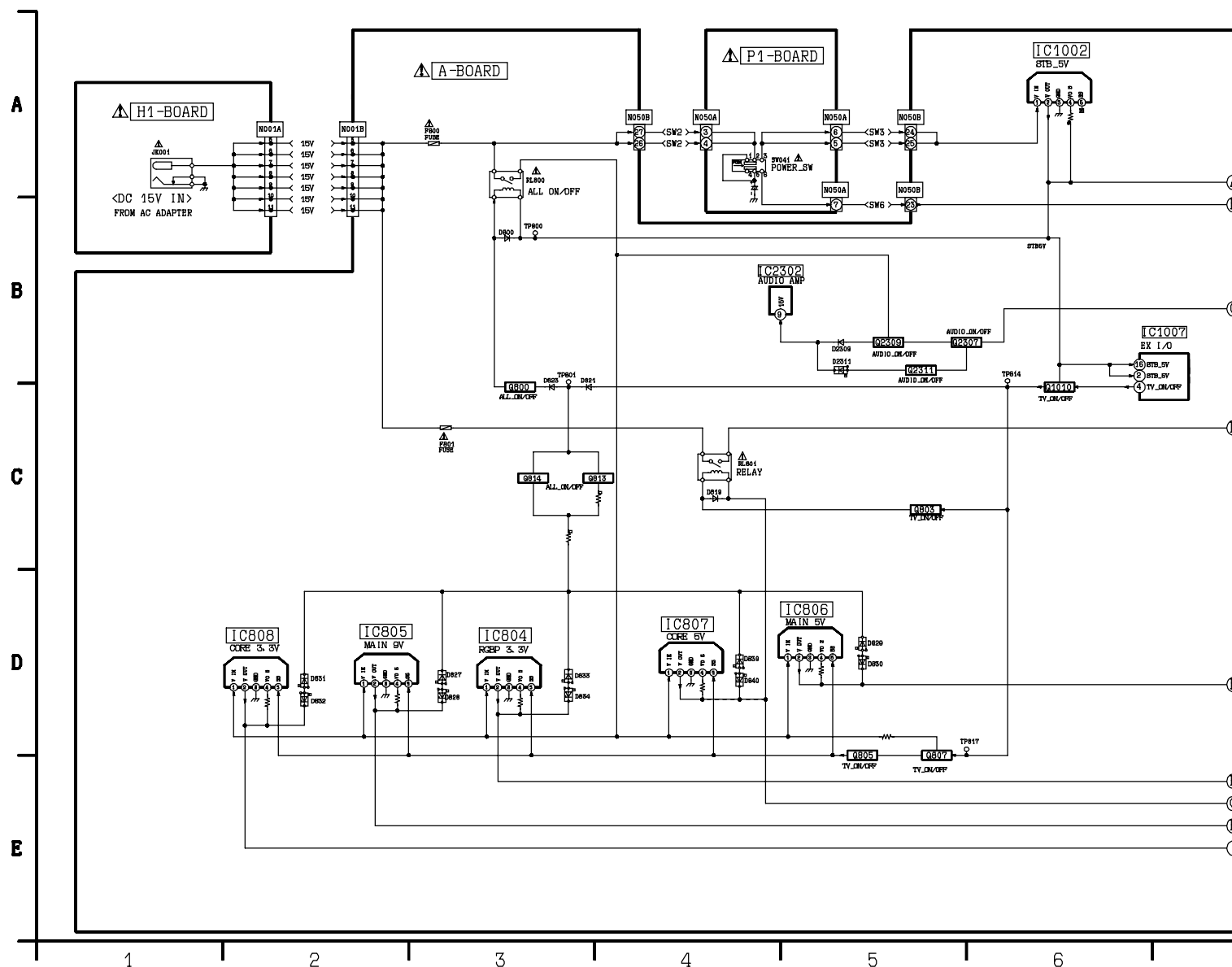
Precautions

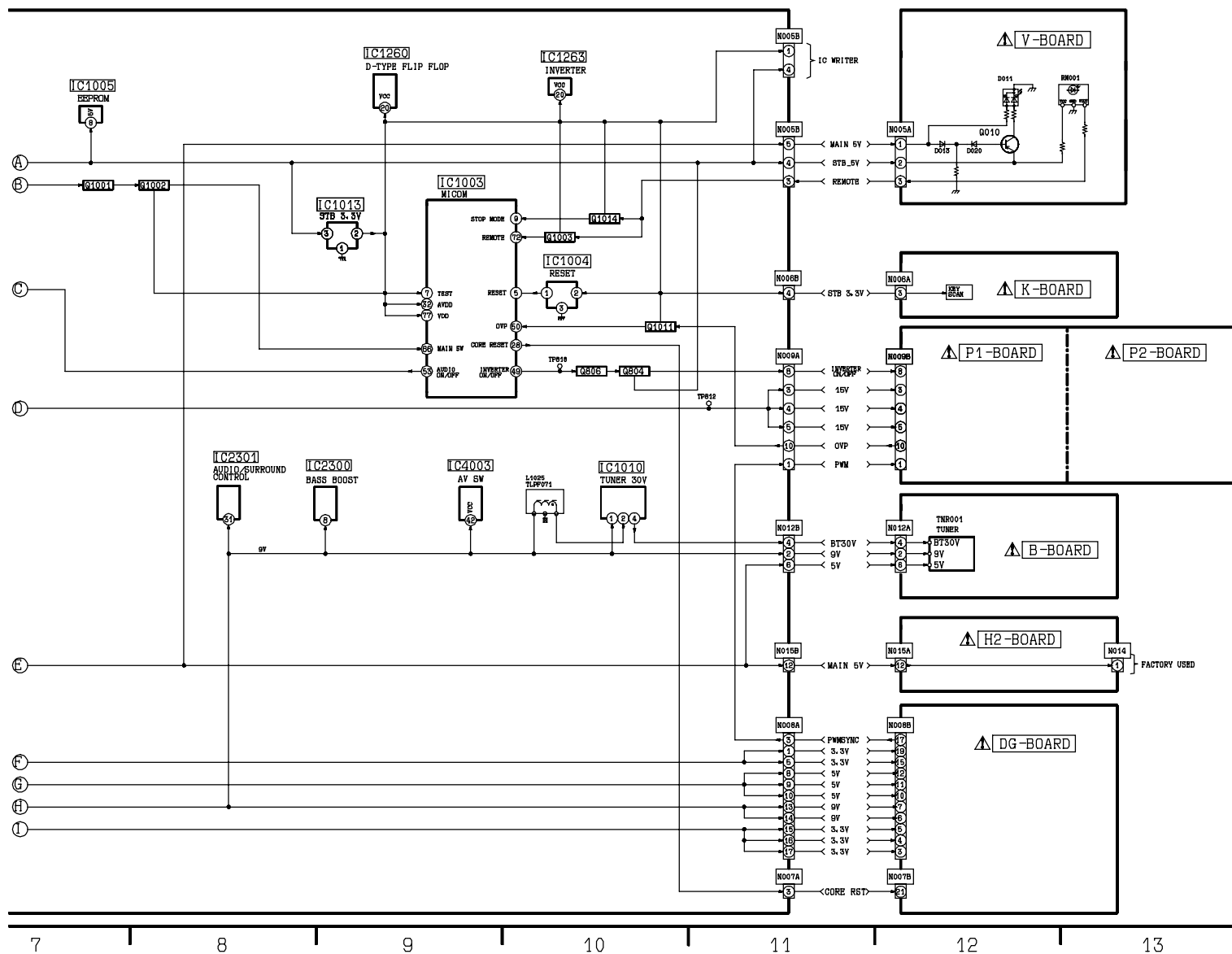
- Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - Make sure to disconnect the power plug before removing the chassis.
- Following diodes are interchangeable.
MA150- MA162 (Replacement part)

8.2. Interconnection Schematic Diagram

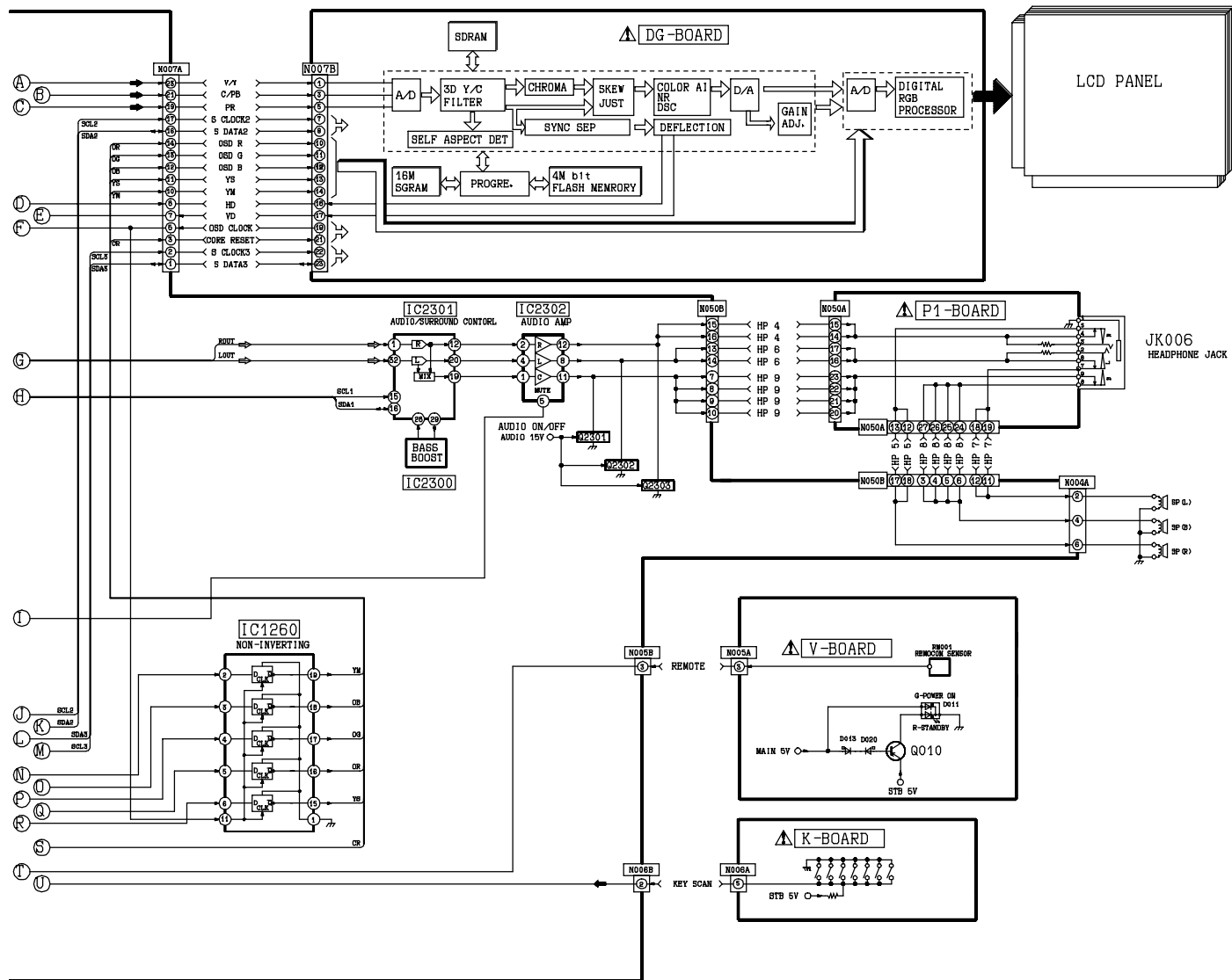


8.3. Power Block Diagram

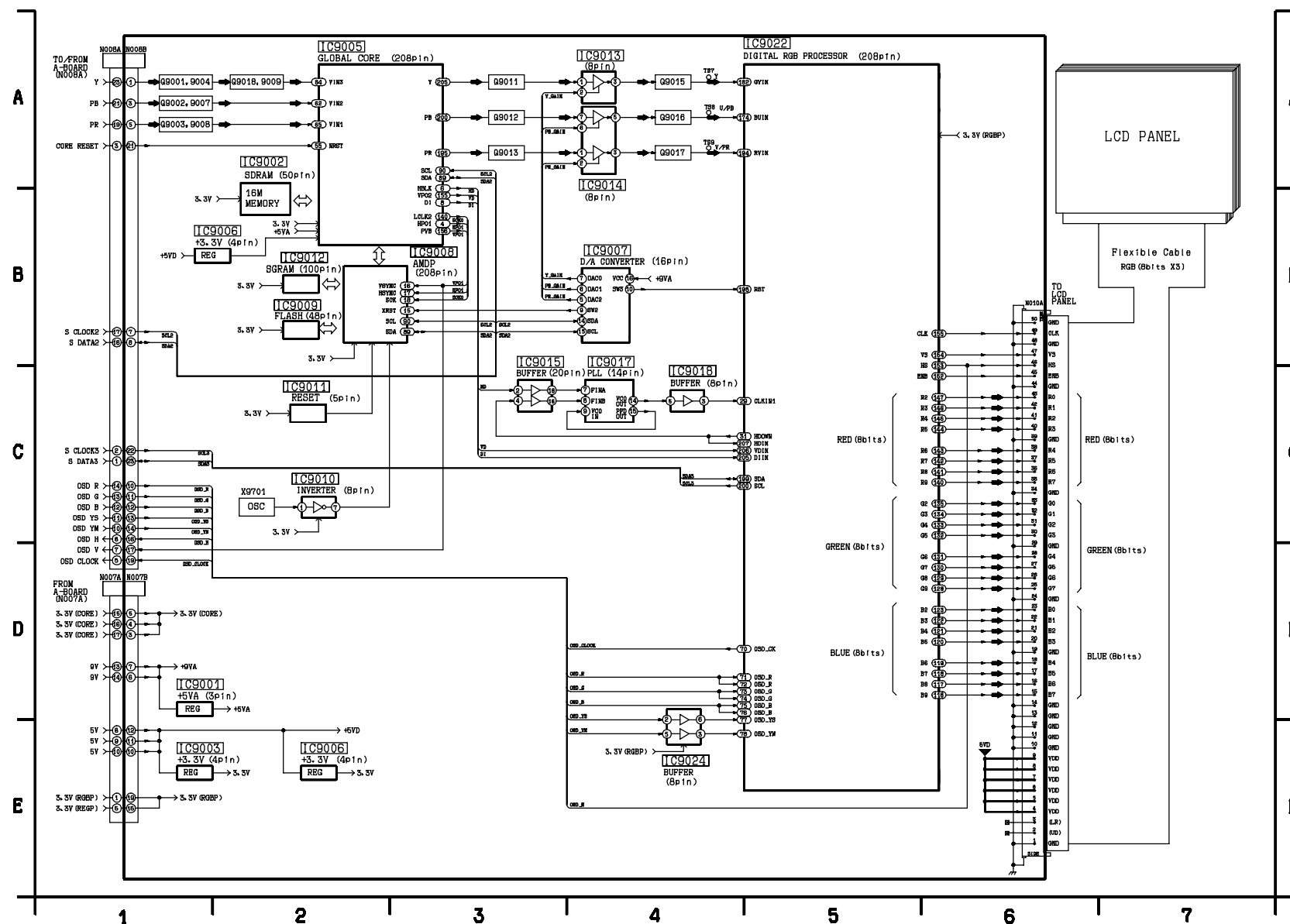








8.5. DG-Board Block Diagram







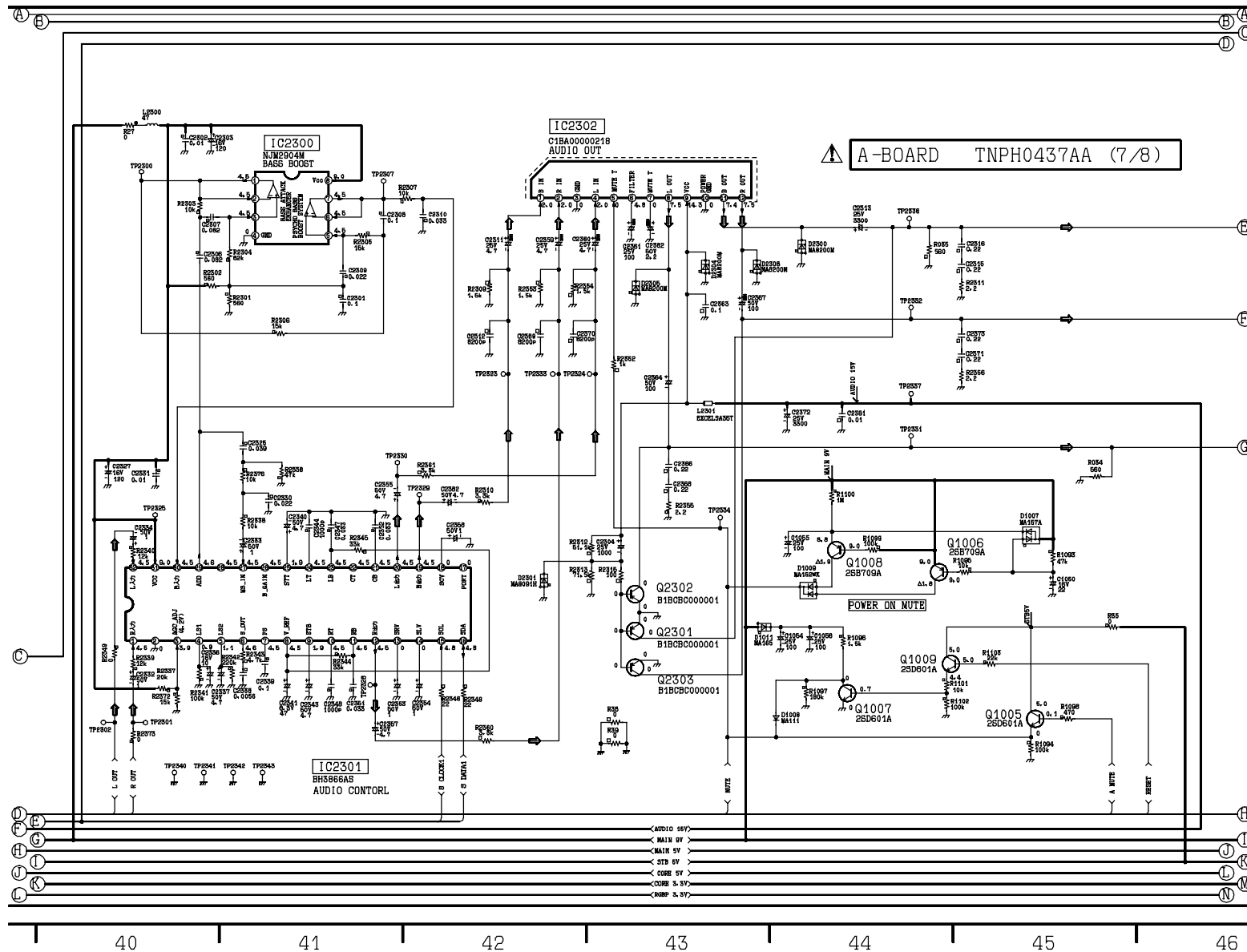








8.12. A-Board(7/8) Schematic Diagram

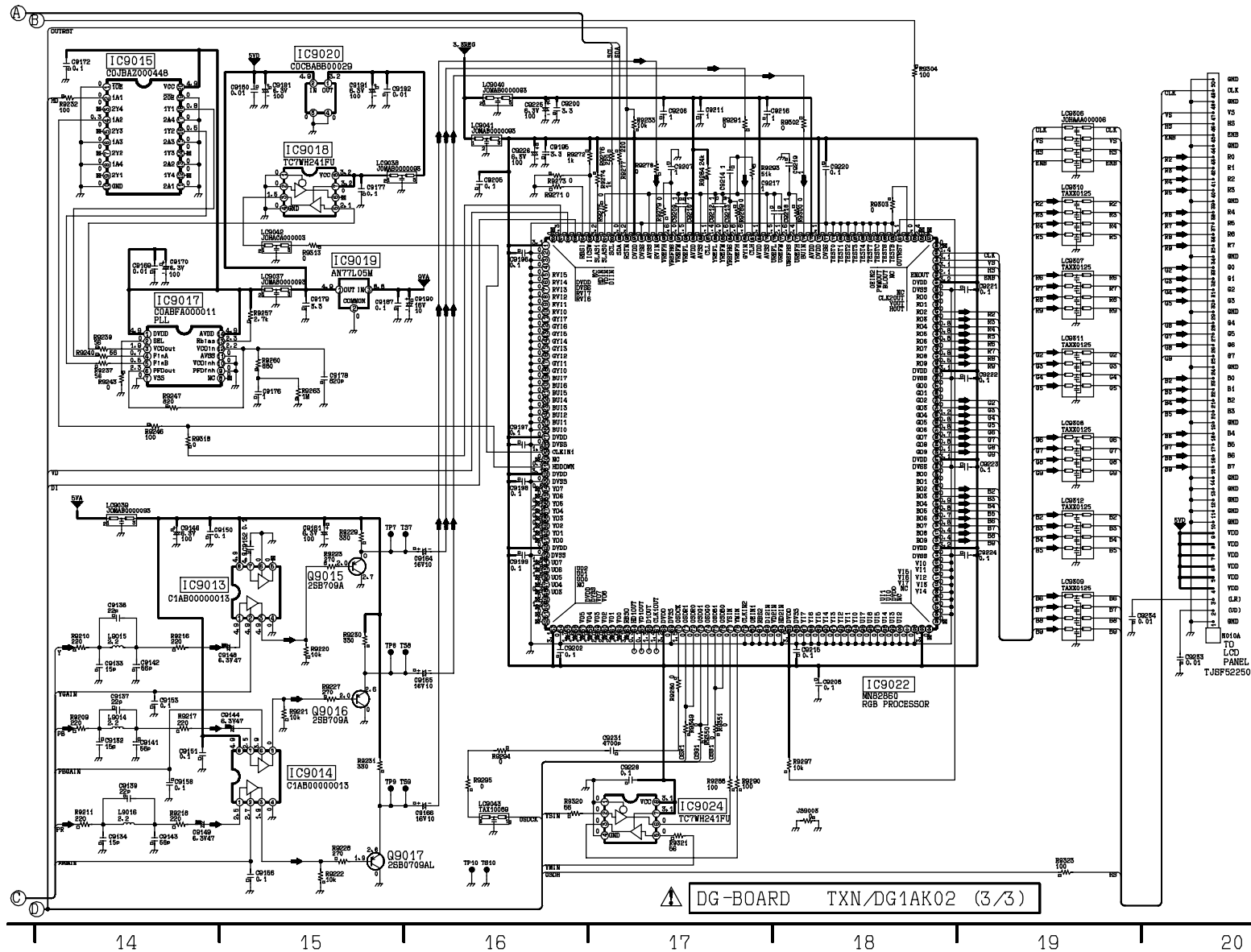








8.16. DG-Board(3/3) Schematic Diagram

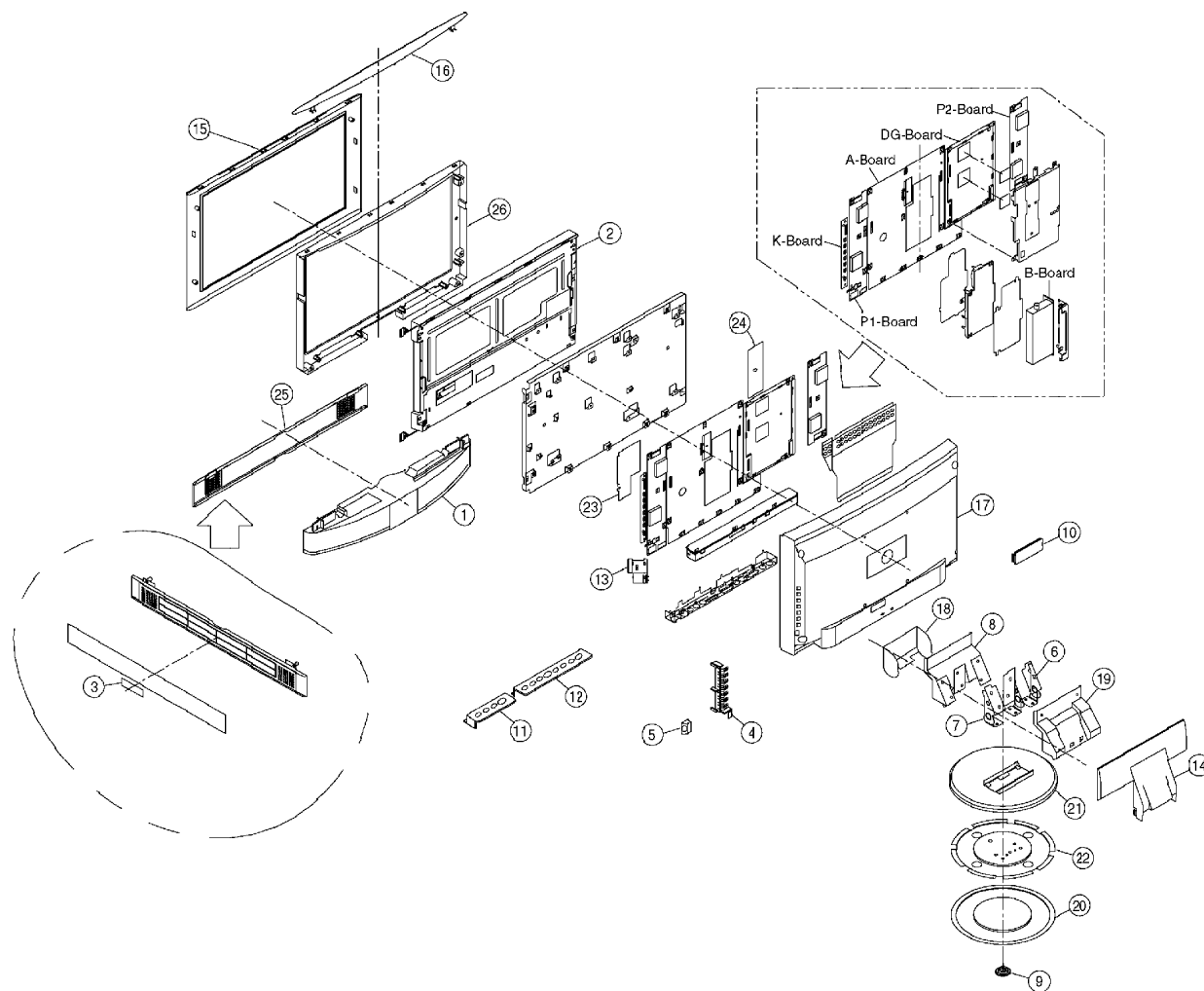




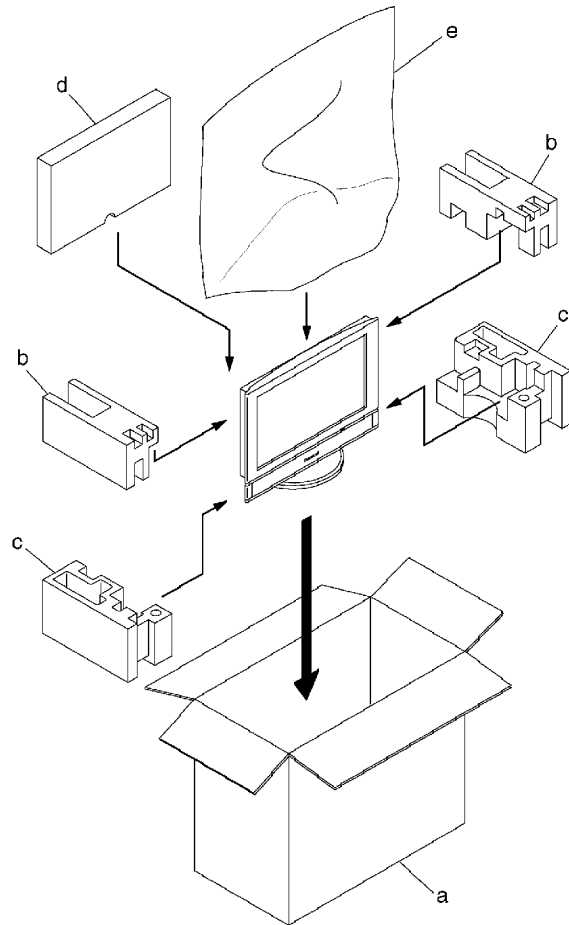


9 Parts Location & Mechanical Replacement Parts List

9.1. Parts Location



9.2. Packing Exploded View



9.3. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAB719A0	SPEAKER UNIT	1	
2	EDTCF08QAF	LCD PANEL	1	
	K1SGABCA0001	ADAPTER	1	
	K1TYA9B00002	IF CABLE	1	
	K2CA2EA00005	AC POWER CORD	1	△
	K2KZ9DB00001	CABLE (D TERMINAL)	2	
	NOJZHK000004	AC ADAPTOR	1	△
	N2QAFCC000006	REMOCON TRANSMITTER	1	
3	TBMA090	PANASONIC BADGE	1	
	TBME193	MODEL NAME PLATE	1	△
4	TRXA27802	CONTROL BUTTON	1	
5	TRXA29402	POWER BUTTON	1	
6	TEJA039	CHILD SHAFT (LEFT)	1	
7	TEJA040	CHILD SHAFT (RIGHT)	1	
8	TEJA041	CHILD SHAFT (CENTER)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
9	TEJF016	SHAFT	1	
	TESA140	SPRING	2	
	THTF002U	SCREW	4	
	THW70035Y	WASHER	1	
	TJSD03400	F PLUG	1	K1SHBAZA0001
	TKKC5104	LED TREND SHAFT	1	
10	TKKL5141-1	CONNECTOR COVER	1	
	TKKL5142	RECEIVER COVER	1	
11	TKKL5145	TERMINAL COVER (LEFT)	1	
12	TKKL5146	TERMINAL COVER (RIGHT)	1	
13	TKKL5147-1	JACK BRACKET	1	
14	TKKL5148	CABLE COVER	1	
15	TKPA46004	FRONT PANEL	1	
16	TKPA46201	TOP COVER	1	
17	TKUC11002	REAR COVER	1	△
18	TKXA10101	CHILD COVER (FRONT)	1	
19	TKXA10201B	CHILD COVER (REAR)	1	
20	TKXA10301	PLATE	1	
21	TKXA10401	COVER	1	
22	TKZG5025	CHILD BASE	1	
	TMKA202	CUSHION	2	
	TMKA202	CUSHION	1	
	TMKE161	INSULATOR	1	
23	TMKE163	INSULATOR (RIGHT)	1	
24	TMKE164	INSULATOR (LEFT)	1	
	TMKG254	CUSHION	2	
	TMKG255	CUSHION	1	
	TMKK039-1	SET LEG	6	
	TMKK095	SPACER	2	
	TMKK096	SPACER	2	
	TMKK291	INSULATOR	1	
	TMME149	CLAMPER	1	
	TMME149	CLAMPER	4	
	TMME150	INSULATOR	1	
	TMME157	CLAMPER	4	
	TMME158	CLAMPER	1	
	TMWJ023	BRACKET	1	
a	TECB06401	CARTON BOX	1	
b	TEDA0479	CUSHION (TOP)	1	
c	TEDA0480	CUSHION (BOTTOM)	1	
d	TEDF0551	ACCESSORY BOX	1	
e	TEFH118	PROTECT COVER	1	
	TQBC7055	SERVIS CENTER LIST	1	
	TQBE0427	INSTRUCTION BOOK	1	△
	TQE8513-2	POLY BAG	1	
	TQEF036	POLY BAG	1	
	TQFB292	LABEL	1	△
	TQFB315	TERMINAL LABEL (LEFT)	1	
	TQFB316	TERMINAL LABEL (RIGHT)	1	
	TSXL148	CABLE (23P)	1	
	TSXL149	CABLE (19P)	1	
	TSXL155	CABLE (6P)	1	
	TSXL158	CABLE (5P)	1	
	TSXL159	CABLE (29P)	1	
	TSXL160	CABLE (10P)	1	
	TSXL161	CABLE (50P)	1	
25	TTPA0159-2	SPEAKER PANEL A,SSY	1	
26	TKFKY01AK02	CABINET	1	
	XNHTHN2943-1	F TERMINAL NUT	1	
	XTB4+10F	SCREW	1	
	XTB4+12J	SCREW	2	
	XTB4+12JFY	SCREW	2	
	XTB4+16J	SCREW	4	
	XTB4+20JFY	SCREW	5	
	XTB4+30JFY	SCREW	4	
	XTB4+8F	SCREW	4	
	XTN3+8J	SCREW	4	
	XTN3+8JFY	SCREW	10	
	XTV3+8J	SCREW	1	
	XTW3+6T	TAPPING SCREW	2	
	XTW3+6T	TAPPING SCREW	31	
	XYN4+F12	SCREW	6	
	XZBT6506	POLY BAG	1	

10 Replacement Parts List

10.1. Replacement Parts List Notes

Important Safety Notice

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide Metal Film	J : $\pm 5\%$
S : Solid	K : $\pm 10\%$
W : Wire Wound	M : $\pm 20\%$

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polyprop	G : $\pm 3\text{pF}$
ylene	J : $\pm 5\text{pF}$
T : Tantalum	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

10.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TXN/DG1AK02	CIRCUIT BOARD DG	1	
RTL	TNPA2122AA	CIRCUIT BOARD P1	1	△
RTL	TNPA2123AA	CIRCUIT BOARD P2	1	△
RTL	TNPA2124AA	CIRCUIT BOARD B	1	
RTL	TNPA2125AA	CIRCUIT BOARD V	1	
RTL	TNPA2126AA	CIRCUIT BOARD K	1	
RTL	TNPA2127AA	CIRCUIT BOARD H1	1	
RTL	TNPA2128AA	CIRCUIT BOARD H2	1	
RTL	TNPH0437AA	CIRCUIT BOARD A	1	△
C011	EEVHB0J470	E 47UF, 6.3V	1	
C012	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C041	F2A1E1010030	E 100UF 25V	1	
C601,02	ECU1H563JC9	P 0.056UF. 50V	2	
C608	ECU1H104JC9	P 0.1UF. 50V	1	
C611	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C618	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C621,22	ECU1H563JC9	P 0.056UF. 50V	2	
C628	ECU1H104JC9	P 0.1UF. 50V	1	
C631	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C638	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C640,41	F2A1E1010030	E 100UF 25V	2	
C651A	TACDZ3F150JT	E 15UF, 3KV	1	
C651B,2A	TACDZ3F150JT	E 15UF, 3KV	2	
C652B	TACDZ3F150JT	E 15UF, 3KV	1	
C653	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C653A	TACDZ3F150JT	E 15UF, 3KV	1	
C653B	TACDZ3F150JT	E 15UF, 3KV	1	
C655	EEVHB1H100	E 10UF, 50V	1	
C661A	TACDZ3F150JT	E 15UF, 3KV	1	
C661B,2A	TACDZ3F150JT	E 15UF, 3KV	2	
C662B	TACDZ3F150JT	E 15UF, 3KV	1	
C663	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C663A	TACDZ3F150JT	E 15UF, 3KV	1	
C663B	TACDZ3F150JT	E 15UF, 3KV	1	
C665	EEVHB1H100	E 10UF, 50V	1	
C670	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C671	ECUX1H331JCG	C 330PF, J, 50V	1	
C672,73	ECUX1H471JCV	C 470PF, J, 50V	2	
C675	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C681	F2A1E1010030	E 100UF 25V	1	
C682	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C683	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C684	F2A1H100A126	E 10UF, 50V	1	
C685	F2A1E1010030	E 100UF 25V	1	
C686	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C692	F2A1E1010030	E 100UF 25V	1	
C810	F2A1H221A118	E 220UF, 50V	1	
C812	F2A1C471A129	E 470UF, 16V	1	
C813	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C815	F2A1V2210030	E 220UF, 35V	1	
C816	F2A1C102A123	E 1000UF, @ 16V	1	
C817	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C818	F2A1E1020019	E 1000UF, 25V	1	
C820	F2A1V101A088	E 100UF, 35V	1	
C821	F2A1C471A129	E 470UF, 16V	1	
C822	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C823	F2A1V2210030	E 220UF, 35V	1	
C824	F2A1E471A092	E 470UF, 25V	1	
C825,26	F2A1C6810005	E 680UF, 16V	2	
C827,28	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C829	EEVHB0J470	E 47UF, 6.3V	1	
C834-38	ECJ2XB1H103K	C 0.01UF, K, 50V	5	
C839	EEVHB1C100	E 10UF, 16V	1	
C840,41	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C842	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C1002	EEVHB1C470	E 47UF, 16V	1	
C1005	EEVHB1H4R7	E 4.7UF, 50V	1	
C1007	F2A1V331A088	E 330UF, 35V	1	
C1009	F2A1H470A118	E 47UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1010	ECUX1H101JCG	C 100PF, J, 50V	1	
C1011	EEVHB1H1R0	E 1UF, 50V	1	
C1012	TAC11025221T	E 220UF, 50V	1	
C1013	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1020	ECUX1H101JCG	C 100PF, J, 50V	1	
C1021	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C1028	ECUX1H270JCG	C 27PF, J, 50V	1	
C1030	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1031	EEVHB0J470	E 47UF, 6.3V	1	
C1032	ECUX1H220JCN	C 22PF, J, 50V	1	
C1041	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1042	EEVHB1C100	E 10UF, 16V	1	
C1043	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C1046	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1047	EEVHB0J470	E 47UF, 6.3V	1	
C1050	EEVHB1C220	E 22UF, 16V	1	
C1054-56	F2A1E1010030	E 100UF 25V	3	
C1059	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C1065	ECUX1H220JCN	C 22PF, J, 50V	1	
C1066	EEVHB0J470	E 47UF, 6.3V	1	
C1067	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1068,69	EEVHB1H1R0	E 1UF, 50V	2	
C1070	EEVHB1C470	E 47UF, 16V	1	
C1071	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C1072	EEVHB1H4R7	E 4.7UF, 50V	1	
C1074	ECUX1H471JCV	C 470PF, J, 50V	1	
C1075	ECUX1H561JCV	C 560PF, J, 50V	1	
C1076	EEVHP1H1R0	E 1UF, 50V	1	EEVHP1H1R0R
C1077	EEVHP0J470	E 47UF, 6.3V	1	
C1078	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C1079	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C1081	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1082,83	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1084	EEVHB0J470	E 47UF, 6.3V	1	
C1085,86	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C1088	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1089-91	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1165	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C1212	ECUX1H330JCG	C 33PF, J, 50V	1	
C1213	ECUX1H180JCN	C 18PF, J, 50V	1	
C1215	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C1216	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1217	EEVHB1E4R7	E 4.7UF, 50V	1	
C1218	ECJ1VF1C474Z	C 4.7UF, Z, 16V	1	
C1219	ECJ2XB1H392K	C 3900PF, K, 50V	1	
C2301	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C2302	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2303	F2A1C1210003	E 120UF, 16V	1	
C2304	F2A1E102A092	E 1000UF, 25V	1	
C2306,07	ECJ2VB1E823K	C 0.082UF, K, 25V	2	
C2308	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C2309	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2310	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2311	EEVHB1E4R7	E 4.7UF, 50V	1	
C2312	ECJ2XB1H822K	C 8200PF, K, 50V	1	
C2313	F2A1E332A104	E 3300PF, 25V	1	
C2314	F1L1C106A013	C 10UF, 16V	1	
C2315,16	ECJ2YB1E224K	C 0.22UF, K, 25V	2	
C2317	F1L1C106A013	C 10UF, 16V	1	
C2325	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2327	F2A1C1210005	E 120UF, 16V	1	
C2330	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2331	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2332-34	EEVHB1H1R0	E 1UF, 50V	3	
C2336	EEVHB1C100	E 10UF, 16V	1	
C2337	EEVHB1E4R7	E 4.7UF, 50V	1	
C2338	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2339	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C2340	EEVHB1E4R7	E 4.7UF, 50V	1	
C2341	EEVHB0J470	E 47UF, 6.3V	1	
C2343	EEVHB1E4R7	E 4.7UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2344	ECUX1H102JCX	C 1000PF, J, 50V	1	
C2347	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2348	ECUX1H102JCX	C 1000PF, J, 50V	1	
C2351,52	ECJ2VB1H333K	C 0.033UF, K, 50V	2	
C2353,54	EEVHB1H1R0	E 1UF, 50V	2	
C2355	EEVHB1E4R7	E 4.7UF, 50V	1	
C2357	EEVHB1E4R7	E 4.7UF, 50V	1	
C2358	EEVHB1H1R0	E 1UF, 50V	1	
C2359,60	EEVHB1E4R7	E 4.7UF, 50V	2	
C2361	F2A1E101A092	E 100UF, 25V	1	
C2362	EEVHB1H2R2	E 2.2UF, 50V	1	
C2363	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2364	F2A1H101A128	E 100UF, 50V	1	
C2366	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2367	F2A1H101A128	E 100UF, 50V	1	
C2368	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2369,70	ECJ2XB1H822K	C 8200PF, K, 50V	2	
C2371	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2372	F2A1E332A104	E 3300PF, 25V	1	
C2373	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2379	ECA1EEN470	E 47UF 25V	1	
C2380	EEVHB1C100	E 10UF, 16V	1	
C2381	ECJ2VB1H103K	C 0.01UF, K, 50V	1	
C2382	EEVHB1E4R7	E 4.7UF, 50V	1	
C4001	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4003	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4004	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4005-07	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C4013,14	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4027	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4029	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4038-43	ECJ2XB1H102K	C 1000PF, K, 50V	6	
C4047	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4049	EEVHB1C470	E 47UF, 16V	1	
C4057	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4058	EEVHB1C470	E 47UF, 16V	1	
C4059	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4063-66	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C4067-69	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C4070	F1K0J1060020	C 10UF, K, 6.3V	1	
C4073,74	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C4075,76	ECJ2YF1C225Z	C 22PF, J, 16V	2	
C4078	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4079,80	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C4201	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4203	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4204	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4205-07	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C4208	F1K0J1060020	C 10UF, K, 6.3V	1	
C4213,14	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4275,76	ECJ2YF1C225Z	C 22PF, J, 16V	2	
C4301,02	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4305	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4306,07	F1K1H1050002	C 1UF, Z, 50V	2	
C4308,09	F1L1C106A013	C 10UF, 16V	2	
C4310	F1K1H1050002	C 1UF, Z, 50V	1	
C4312	ECUX1C475ZFM	C 4.7UF, Z, 16V	1	F1K1C4750010
C4314	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C9001	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9002,03	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9004	EEVHB1C470	E 47UF, 16V	1	
C9005	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9006	EEVHB1C470	E 47UF, 16V	1	
C9007	ECUX1H101JCV	C 100PF, J, 50V	1	
C9008,09	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9010	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9011	ECUX1H080CCV	C 8PF, C, 50V	1	
C9012	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9013	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9014	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9015	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9016	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9017,18	ECUX1H470JCV	C 47PF, J, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9019	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9020	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9021,22	ECUX1H151JCV	C 150PF, J, 50V	2	
C9023,24	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9026,27	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9030,31	EEVHB1A100	E 10UF, 10V	2	
C9032	ECUX1H470JCV	C 47PF, J, 50V	1	
C9033	ECUX1H060DCV	C 6PF, C, 50V	1	
C9034	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9035	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9037	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9038	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9039	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9041	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9042	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9043	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9045	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9047	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9048	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9049	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9050	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9051	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9052	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9053	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9055	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9056	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9058	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9060	ECUX1H330JCV	C 33PF, J, 50V	1	
C9061-63	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9064	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9065,66	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9067	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9068	ECUX1H680JCV	C 68PF, J, 50V	1	
C9069	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9070	ECJ2VB1C683K	C 0.068UF, K, 16V	1	
C9071	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9072	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9073	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9075,76	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9078	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9079,80	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9082	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9083,84	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9085,86	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C9087	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9088	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9089	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9090	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9091	ECUX1H680JCV	C 68PF, J, 50V	1	
C9092	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9093	ECUX1H330JCV	C 33PF, J, 50V	1	
C9094	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9095	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9096	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9097	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9098	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9099,00	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9101	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9102	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C9103-11	ECJ1VF1C104Z	C 0.1UF, Z, 16V	9	
C9112	ECUX1H120JCV	C 12PF, J, 50V	1	
C9113	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9114	EEVHB0J220	E 22UF 6.3V	1	
C9115	ECUX1H120JCV	C 12PF, J, 50V	1	
C9116-18	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9119,20	EEVHB0J101	E 100UF 6.3V	2	EEVHB0J101P
C9121	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9122,23	EEVHB0J101	E 100UF 6.3V	2	EEVHB0J101P
C9124	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9125	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C9127	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9128	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9129	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9130	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9131	EEVHB0J470	E 47UF, 6.3V	1	
C9132-34	ECUX1H150JCV	C 15PF, J, 50V	3	
C9135,36	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9137-39	ECUX1H220JCV	C 22PF, J, 50V	3	
C9140	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9141-43	ECUX1H560JCV	C 56PF, J, 50V	3	
C9144	EEVHP0J470	E 47UF, 6.3V	1	
C9145	EEVHB0J470	E 47UF, 6.3V	1	
C9146	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9147	EEVHB0J470	E 47UF, 6.3V	1	
C9148,49	EEVHP0J470	E 47UF, 6.3V	2	
C9150-53	ECJ1VB1C104K	C 0.1UF, K, 16V	4	
C9154,55	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9156	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9157	EEVHB0J220	E 22UF 6.3V	1	
C9158	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9159,60	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9161	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9162	EEVHB0J470	E 47UF, 6.3V	1	
C9163	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9164-66	EEVHB1C100	E 10UF, 16V	3	
C9167	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9169	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9170	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9171	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9172	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9174	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9175	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9176	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9177	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9178	ECUX1H821JCV	C 820PF, J, 50V	1	
C9179	TCUV0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9180	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9181	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9182	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9187	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9188,89	EEVHB1C470	E 47UF, 16V	2	
C9190	EEVHB1C100	E 10UF, 16V	1	
C9191	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9192	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9195	TCUV0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9196-99	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9200	TCUV0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C9202	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9205	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9206,07	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9208	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9209-14	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C9215	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9216-19	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C9220-24	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C9225,26	EEVHB0J101	E 100UF 6.3V	2	EEVHB0J101P
C9227	ECUX1H470JCV	C 47PF, J, 50V	1	
C9228	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9230	ECUX1H080CCV	C 8PF, C, 50V	1	
C9231	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9232	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9233,34	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9241-48	ECJ1VF1C104Z	C 0.1UF, Z, 16V	8	
C9300,01	ECUX1H270JCV	C 27PF, J, 50V	2	
C9302	EEVHB0J101	E 100UF 6.3V	1	EEVHB0J101P
C9303	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
D011	LNJ101WHLEA	LED	1	
D013	MA111	DIODE	1	MA2J111
D020	MA111	DIODE	1	MA2J111
D601	MA111	DIODE	1	MA2J111
D603	DAN217	ZENER DIODE	1	
D604	MA111	DIODE	1	MA2J111
D606	DAN217	ZENER DIODE	1	
D608,09	B0JCNE000004	DIODE	2	
D611,12	MA113	DIODE	2	MA2J11300L

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D628,29	B0JCNE000004	DIODE	2	
D631,32	MA113	DIODE	2	MA2J11300L
D642,43	MA111	DIODE	2	MA2J111
D651	DAN217	ZENER DIODE	1	
D652	MA111	DIODE	1	MA2J111
D661	DAN217	ZENER DIODE	1	
D662	MA111	DIODE	1	MA2J111
D800	MA165	DIODE	1	MA2C165
D808	EK14	DIODE	1	B0JAME000045
D810	TMPG068G3	ZENER DIODE	1	
D811	AK04	DIODE	1	B0JAME000058
D813	AK04	DIODE	1	B0JAME000058
D814	TMPG068G3	ZENER DIODE	1	
D815	AK04	DIODE	1	B0JAME000058
D816	EK14	DIODE	1	B0JAME000045
D817,18	TMPG068G3	ZENER DIODE	2	
D819	MA165	DIODE	1	MA2C165
D821	MA111	DIODE	1	MA2J111
D823	MA111	DIODE	1	MA2J111
D827	MA111	DIODE	1	MA2J111
D828	MA8110M	DIODE	1	
D829	MA111	DIODE	1	MA2J111
D830	MA8062L	ZENER DIODE	1	
D831	MA111	DIODE	1	MA2J111
D832	MA8056M	ZENER DIODE	1	MAZ80560M
D833	MA111	DIODE	1	MA2J111
D834	MA8056M	ZENER DIODE	1	MAZ80560M
D839	MA111	DIODE	1	MA2J111
D840	MA8062L	ZENER DIODE	1	
D1001	AK04	DIODE	1	B0JAME000058
D1003	TMPG068G3	ZENER DIODE	1	
D1004,05	MA8043M	ZENER DIODE	2	MAZ80430M
D1006	MA8062M	ZENER DIODE	1	MAZ80620M
D1007	MA157A	DIODE	1	MA3X157A
D1008	MA111	DIODE	1	MA2J111
D1009	MA152WK	DIODE	1	MA3X152E0L
D1011	MA165	DIODE	1	MA2C165
D2300	MA8200M	ZENER DIODE	1	
D2301	MA8091H	DIODE	1	
D2304,05	MA8200M	ZENER DIODE	2	
D2308	MA8200M	ZENER DIODE	1	
D2309	B0JANE000009	DIODE	1	
D2311	MA8110H	ZENER DIODE	1	MAZ81100HL
D2312	MA111	DIODE	1	MA2J111
D4001-09	MA8140M	ZENER DIODE	9	
D4011	MA8140M	ZENER DIODE	1	
D4024-31	MA8056M	ZENER DIODE	8	MAZ80560M
D4201-09	MA8140M	ZENER DIODE	9	
D4211	MA8140M	ZENER DIODE	1	
F800,01	TSF39632-1	MICRO FUSE@	2	△
FG4,G5	K4ZZ01000121	EARTH LUG	2	
FG7,G8	K4ZZ01000121	EARTH LUG	2	
FG10,11	K4ZZ01000121	EARTH LUG	2	
FG14,15	K4ZZ01000121	EARTH LUG	2	
FG30-32	K4ZZ01000121	EARTH LUG	3	
FG40,41	K4ZZ01000121	EARTH LUG	2	
FG601-06	K4ZZ01000121	EARTH LUG	6	
IC670	TL1451ACNS	IC	1	
IC804-08	PQ1CZ21H2ZP	IC	5	C0DBC MG00001
IC1002	PQ1CZ21H2ZP	IC	1	C0DBC MG00001
IC1003	TVRJ509-1	ROM IC	1	
IC1004	MN13821GP	LINEAR IC	1	
IC1005	TVSA0424	IC	1	C3EBGC000021
IC1007	JLC1562BF	MOS IC (MICON LSI)	1	C0JBAZ001265
IC1010	TK11819MTL	IC	1	
IC1013	C0CBABF00009	IC	1	
IC1260	C0JBABF000423	IC	1	
IC1263	C0JBAZ001693	IC	1	
IC2300	NJM2904M	LINEAR IC	1	C0ABBA000021

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2301	BH3866AS	LINEAR IC	1	C1BA00000315
IC2302	TA8256BH	LINEAR IC	1	C1BA00000218
IC4003	CXA2069Q	LINEAR IC	1	C1AB00000459
IC9001	AN77L05M	LINEAR IC	1	
IC9002	TVSA0500	IC	1	C3ABMG000074
IC9003	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC9005	MB87L1067	IC	1	
IC9006	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC9007	CXA1315M	IC	1	C1AB00000440
IC9008	MN8271AT	MOS IC	1	
IC9009	TVRJ375-1	IC	1	C3FBKD000103
IC9010	TC7WU04F	MOS IC (CMOS S/LOGIC)	1	C0JBAB000301
IC9011	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC9012	C3ABM7000004	IC	1	
IC9013,14	CXA1211M	LINEAR IC	2	C1AB00000013
IC9015	TC74ACT244F	INTEGRATED CIRCUIT	1	C0JBAZ000448
IC9017	TLC2932IPWL	LINEAR IC	1	C0ABFA000011
IC9018	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
IC9019	AN77L05M	LINEAR IC	1	
IC9020	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC9022	MN82860	MOS IC	1	
IC9024	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
JK001	TJSF36201	DC POWER JACK	1	△
JK002	K2HC103A0002	JACK	1	
JK003	K1U413A00002	TERMINAL BOARD	1	
JK004	TJB16625	2P PIN JACK	1	K2HA202A0036
JK005	K1FB114A0007	D TERMINAL	1	
JK006	TJSF32800	HEAD PHON JACK	1	K2HC103B0095
JK023	K1U413A00002	TERMINAL BOARD	1	
JK024	TJB16625	2P PIN JACK	1	K2HA202A0036
JK025	K1FB114A0007	D TERMINAL	1	
JS811	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS9003	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L606,07	G1C680MA0032	INDUCTION COIL	2	
L626,27	G1C680MA0032	INDUCTION COIL	2	
L808	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L810	TALL10RP221LB	COIL	1	
L811	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L812	TALL10RP181LB	INDUCTION COIL	1	G0ZZ00001931
L813	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L814	TALL10RP331LB	COIL	1	
L815,16	TALL08N470KA	INDUCTION COIL	2	G0A470GA0011
L817	TALL10RP101LB	COIL	1	G0ZZ00001930
L818	TALL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L819	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L820,21	D0X0R0000016	M 0 OHM,J,1/10W	2	
L822	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L1001	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L1002	TALL10RP101LB	COIL	1	G0ZZ00001930
L1004	ELJPA330KB	CHIP INDUCTOR	1	
L1006,07	RLQP100KT2-Y	CHIP INDUCTOR	2	G1C100KA0009
L1008,09	LK2125100K-T	INDUCTION COIL	2	G1C100KA0010
L1010,11	RLQP100KT2-Y	CHIP INDUCTOR	2	G1C100KA0009
L1012	ELJPA4R7MB	CHIP INDUCTOR	1	
L1018,19	ELJPA330KB	CHIP INDUCTOR	2	
L1023,24	RLQP100KT2-Y	CHIP INDUCTOR	2	G1C100KA0009
L1025	TLFP071	CHOKE COIL	1	
L1026	ELJPA4R7MB	CHIP INDUCTOR	1	
L1027	ELJPA220KB	CHIP INDUCTOR	1	
L1202	J0JDC0000022	CHIP INDUCTOR	1	
L2300	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L2301	EXCELSA35	BEAD CHOKE	1	
L4001	ELJPA330KB	CHIP INDUCTOR	1	
L9003	ELJPA100KB	CHIP INDUCTOR	1	
L9004,05	ELJFA4R7JB	I. F. TRANSFORMER	2	
L9006	ELJPA101KB	CHIP INDUCTOR	1	
L9014-16	ELJFA2R2JF	I. F. TRANSFORMER	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LC1004	JOMAB00000095	CHIP INDUCTOR	1	
LC1005	ELJPA330KB	CHIP INDUCTOR	1	
LC4311	ELJPA330KB	CHIP INDUCTOR	1	
LC9001	ELKE103FA	NOISE FILTER	1	
LC9002	ELKE220FA	NOISE FILTER	1	
LC9003,04	ELKE101FA	NOISE FILTER	2	
LC9005-12	ELKE220FA	NOISE FILTER	8	
LC9013	ELKE103FA	NOISE FILTER	1	
LC9016	ELKE103FA	NOISE FILTER	1	
LC9018,19	ELKE103FA	NOISE FILTER	2	
LC9021,22	ELKE103FA	NOISE FILTER	2	
LC9024-30	JOMAB00000093	NOISE FILTER	7	
LC9031	J0HACA000006	NOISE FILTER	1	
LC9032-41	JOMAB00000093	NOISE FILTER	10	
LC9042	J0HACA000003	LC FILTER	1	
LC9043	TAXI10089	NOISE FILTER	1	JOMAB00000007
LC9306-12	TAXX0125	LC FILTER	7	
N001A	TJSF53914	14PCONNECTOR	1	
N001B	TJSF54014	14PCONNECTOR	1	
N002A	TJSF53914	14PCONNECTOR	1	
N002B	TJSF54014	14PCONNECTOR	1	
N003A	TJSF53920	20PCONNECTOR	1	
N003B	TJSF54020	20PCONNECTOR	1	
N004A	TJS1A8120	6P CONNECTOR	1	K1KA06B00049
N005A	TJSF07805	5P CONNECTOR	1	
N005B	TJSF16305	5P CONNECTOR	1	
N006B	TJSF07806	6P CONNECTOR	1	
N006A	TJSF16306	6P CONNECTOR	1	
N007A	K1MN23A00013	23P CONNECTOR	1	
N007B	K1MN23A00013	23P CONNECTOR	1	
N008A	TJSF21619A	19P CONNECTOR	1	K1MN19A00008
N008B	TJSF21619A	19P CONNECTOR	1	K1MN19A00008
N009A	TJS5A9180	10P CONNECTOR	1	K1KA10A00215
N009B	VJS4321A010A	CONNECTOR	1	K1KB10A00077
N010A	TJSF52250	1P CONNECTOR	1	K1MN50B00005
N012B	TJSF50610	10P CONNECTOR	1	
N012A	TJSF50710	10P CONNECTOR	1	
N013B	TJSF50614	14P CONNECTOR	1	
N013A	TJSF50714	14P CONNECTOR	1	
N014	TJS1A8150	9P CONNECTOR	1	K1KA09B00019
N015A	TJSF53912	12PCONNECTOR	1	
N015B	TJSF54012	12PCONNECTOR	1	
N022A	TJSF53914	14PCONNECTOR	1	
N022B	TJSF54014	14PCONNECTOR	1	
N023A	TJSF53920	20PCONNECTOR	1	
N023B	TJSF54020	20PCONNECTOR	1	
N024	TJS118650	8P CONNECTOR	1	K1KA08A00178
N050A	K1MN29A00007	29P CONNECTOR	1	
N050B	K1MN29A00007	29P CONNECTOR	1	
N651	K1KA03B00065	5P CONNECTOR	1	
N652A	TJSF07810	10P CONNECTOR	1	
N652B	TJSF07810	10P CONNECTOR	1	
N653	K1KA03B00065	5P CONNECTOR	1	
N661	K1KA03B00065	5P CONNECTOR	1	
N663	K1KA03B00065	5P CONNECTOR	1	
N808,09	K4ZZ01000128	TERMINAL	2	
Q010	2SB709A	TRANSISTOR	1	2SB0709A
Q601,02	B1BBFF000003	TRANSISTOR	2	
Q605	UNHH20500L	TRANSISTOR	1	
Q608	2SJ499	TRANSISTOR	1	
Q610	FMY1AT148	TRANSISTOR	1	
Q612	UN5111	TRANSISTOR	1	UNR5111
Q615	UN5211	TRANSISTOR	1	UNR5211
Q621,22	B1BBFF000003	TRANSISTOR	2	
Q625	UNHH20500L	TRANSISTOR	1	
Q628	2SJ499	TRANSISTOR	1	
Q630	FMY1AT148	TRANSISTOR	1	
Q632	UN5111	TRANSISTOR	1	UNR5111
Q635	UN5211	TRANSISTOR	1	UNR5211
Q640,41	2SD601A	TRANSISTOR	2	2SD0601A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q681,82	2SD601A	TRANSISTOR	2	2SD0601A
Q691	UN5211	TRANSISTOR	1	UNR5211
Q692	2SB1219A	TRANSISTOR	1	
Q800	2SD1328	TRANSISTOR	1	2SD132806
Q803	2SD1328	TRANSISTOR	1	2SD132806
Q804	2SB709A	TRANSISTOR	1	2SB0709A
Q805-07	2SD601A	TRANSISTOR	3	2SD0601A
Q813	2SB709A	TRANSISTOR	1	2SB07090R
Q814	2SD601A	TRANSISTOR	1	2SD0601A
Q1001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q1005	2SD601A	TRANSISTOR	1	2SD0601A
Q1006	2SB709A	TRANSISTOR	1	2SB0709A
Q1007	2SD601A	TRANSISTOR	1	2SD0601A
Q1008	2SB709A	TRANSISTOR	1	2SB0709A
Q1009,10	2SD601A	TRANSISTOR	2	2SD0601A
Q1011	UN5211	TRANSISTOR	1	UNR5211
Q1014	2SD601A	TRANSISTOR	1	2SD0601A
Q1016,17	2SD601A	TRANSISTOR	2	2SD0601A
Q1070-72	2SD601A	TRANSISTOR	3	2SD0601A
Q1078	2SB709A	TRANSISTOR	1	2SB0709A
Q1079	2SD601A	TRANSISTOR	1	2SD0601A
Q1080	2SB709A	TRANSISTOR	1	2SB0709A
Q2301-03	B1BCBC000001	TRANSISTOR	3	
Q2307	2SD602-R	TRANSISTOR	1	
Q2309	2SB1416R	TRANSISTOR	1	2SB14160R
Q2311	2SD602-R	TRANSISTOR	1	
Q4002,03	2SD601A	TRANSISTOR	2	2SD0601A
Q4015	2SB709A	TRANSISTOR	1	2SB0709A
Q6050	2SC39380LL	TRANSISTOR	1	
Q9001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q9004	2SB709A	TRANSISTOR	1	2SB0709A
Q9007,08	2SB709A	TRANSISTOR	2	2SB0709A
Q9009	2SD601A	TRANSISTOR	1	2SD0601A
Q9010-17	2SB709A	TRANSISTOR	8	2SB0709A
Q9018	2SK198R	FET	1	2SK01980R
R011	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R012	ERJ6GEYJ470	M 47 OHM, J, 1/10W	1	
R013	ERDS2TJ821	C 820 OHM, J, 1/4W	1	
R014	ERDS2TJ102	C 1KOHM, J, 1/4W	1	
R015	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	1	
R20-31	D0X0R0000010	M 0 OHM, J, 1/10W	12	
R031	ERDS1TJ181	C 180 OHM, J, 1/2W	1	
R32	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R032	ERDS1TJ181	C 180 OHM, J, 1/2W	1	
R33	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R033	ERJ6GEYJ561	M 560 OHM, J, 1/10W	1	
R34	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R034	ERJ6GEYJ561	M 560 OHM, J, 1/10W	1	
R35	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R035	ERJ6GEYJ561	M 560 OHM, J, 1/10W	1	
R36	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R38,39	D0X0R0000010	M 0 OHM, J, 1/10W	2	
R041	ERJ1WYJ331	M 330OHM, J, 1W	1	
R042	ERJ6GEYJ333	M 33KOHM, J, 1/10W	1	
R50	D0X0R0000010	M 0 OHM, J, 1/10W	1	
R061	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
R062	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R063	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R064	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
R065	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R066	ERJ6ENF6651	M6.65KOHM, 1/10W	1	
R067	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
R601,02	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R603-06	ERJ6GEYJ100	M 10 OHM, J, 1/10W	4	
R609	ERJ12YJ100	M 10 OHM, J, 1/2W	1	
R610	ERJ12YJ471	M 470OHM, J, 1/2W	1	
R611	ERJ8GCYJ471	M 470 OHM, J, 1/8W	1	
R612	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	1	
R615,16	ERJ6GEYJ473	M 47KOHM, J, 1/10W	2	
R617	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R618	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R619	ERJ6ENF5492	M54.9KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R621,22	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R629	ERJ12YJ100	M 10 OHM, J, 1/2W	1	
R630	ERJ12YJ471	M 470OHM, J, 1/2W	1	
R631	ERJ8GCYJ471	M 470 OHM, J, 1/8W	1	
R632	ERJ8GCYJ152	M 1.5KOHM, J, 1/8W	1	
R637	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R638	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R639	ERJ6ENF5492	M54.9KOHM, 1/10W	1	
R640,41	ERJ6GEYJ104	M 100KOHM, J, 1/10W	2	
R642,43	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	2	
R644,45	ERJ6GEY0R00	M 0 OHM, J, 1/10W	2	
R646,47	ERJ6GEYJ133	M 13KOHM, J, 1/10W	2	
R651,52	ERJ14NF2000	M 220OHM, 1/10W	2	
R654	ERJ6ENF1472	M14.7KOHM, 1/10W	1	
R655	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R661,62	ERJ14NF2000	M 220OHM, 1/10W	2	
R664	ERJ6ENF1472	M14.7KOHM, 1/10W	1	
R665	ERJ6ENF4751	M4.75KOHM, 1/10W	1	
R671	ERJ6GEYJ223	M 22KOHM, J, 1/10W	1	
R672,73	ERJ6ENF2212	M22.1KOHM, 1/10W	2	
R676,77	ERJ6ENF1003	M 100KOHM, 1/10W	2	
R678,79	ERJ6ENF2212	M22.1KOHM, 1/10W	2	
R680	ERJ6GEYJ133	M 13KOHM, J, 1/10W	1	
R681	ERJ6GEYJ104	M 100KOHM, J, 1/10W	1	
R682	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R683	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	1	
R684	ERJ6GEYJ473	M 47KOHM, J, 1/10W	1	
R685	ERJ6GEYJ133	M 13KOHM, J, 1/10W	1	
R687	ERJ6GEYJ104	M 100KOHM, J, 1/10W	1	
R688	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R689	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	1	
R690	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R692,93	ERJ6GEYJ103	M 10KOHM, J, 1/10W	2	
R694,95	ERJ12YJ471	M 470OHM, J, 1/2W	2	
R696	ERJ6GEYJ473	M 47KOHM, J, 1/10W	1	
R801	ERQ14AJ100P	F 10 OHM, J, 1/4W	1	
R803	ERJ6GEYJ473	M 47KOHM, J, 1/10W	1	
R804	ERJ6GEYJ202	M 2KOHM, J, 1/10W	1	
R815	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R821	ERJ6ENF1781	M1.78KOHM, 1/10W	1	
R822	ERJ6ENF1102	M 11KOHM, 1/10W	1	
R823	ERJ6GEYJ473	M 47KOHM, J, 1/10W	1	
R824	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	1	
R826	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	1	
R827	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	1	
R828-32	ERJ6GEYJ473	M 47KOHM, J, 1/10W	5	
R833	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R834,35	ERJ6GEYJ473	M 47KOHM, J, 1/10W	2	
R836	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R837	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R838	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R839,40	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R841	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R842	ERJ6ENF1691	M 1.6KOHM, 1/10W	1	
R844,45	ERJ6GEY0R00	M 0 OHM, J, 1/10W	2	
R855	ERJ6ENF1651	M1.65KOHM, 1/10W	1	
R857	ERDS2TJ103	C 10KOHM, J, 1/4W	1	
R860,61	ERJ6GEYJ102	M 1KOHM, J, 1/10W	2	
R863	ERJ6GEYJ221	M 220 OHM, J, 1/10W	1	
R864	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R1004,05	ERJ3GEYJ103	M 10KOHM, J, 1/16W	2	
R1008	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R1013	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R1014	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R1016	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R1017	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R1019	ERJ6GEYJ473	M 47KOHM, J, 1/10W	1	
R1020	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R1021	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R1022	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R1023	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	1	
R1026	ERJ6GEYJ103	M 10KOHM, J, 1/10W	1	
R1028-31	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1032	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1033	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1034	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1036	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1038	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1040	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1041	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1042	ERJ6ENF2150	M 215 OHM, 1/10W	1	
R1044,45	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1046	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1047	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1050	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1058-60	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R1061	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1062	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1064	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1068	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1070,71	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R1074-77	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R1081-83	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R1085,86	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1089	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R1093	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1094	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1095	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1096	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R1097	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R1098	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1099	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1100	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R1101	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1102	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1103	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R1110	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1113	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1114	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1117	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1118	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1121	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1125,26	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R1129,30	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R1141	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1142	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1145	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	ERJ6GEYJ682	M 6.8KOHM,J,1/16W	1	
R1148	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R1149	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1151	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1159	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1162	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1167,68	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1171	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1175	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1177	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1178	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1179	ERJ3GEYJ241	M 240 OHM,J,1/16W	1	
R1180	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1181	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R1182	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1185	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1187	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1194-96	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	3	
R1197	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1198	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1199	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1210,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1214,15	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R1218	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1219	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1220,21	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R1222	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1223	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1225-29	ERJ3GEYJ271	M 270 OHM,J,1/16W	5	
R1231-33	ECUX1H100CCN	C 10PF, C, 50V	3	
R1234	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R1235-37	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R2301,02	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2303	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R2304	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R2305,06	ERJ6ENF1502	M 15KOHM, 1/10W	2	
R2307	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2309	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2310	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2311	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	1	
R2312	ERJ6ENF5112	M51.1KOHM, 1/10W	1	
R2313	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R2314	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2315	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2336	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2337	ERJ6ENF2002	M 20KOHM, 1/10W	1	
R2338	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2339,40	ERJ6GEYJ123	M 12KOHM,J,1/10W	2	
R2341	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2342	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2343	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2344,45	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R2346	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R2348	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R2349,50	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2352	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2353,54	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R2355,56	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	2	
R2357	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2358	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2360,61	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2362	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2365	ERG1FJS681D	M 680 OHM, J, 1W	1	
R2366	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2371	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2372	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2373	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2376	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R4002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4004,05	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4006	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4011,12	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R4013-16	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R4017,18	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R4019,20	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R4027,28	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R4030-37	ERJ6GEY0R00	M 0 OHM,J,1/10W	8	
R4039,40	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4041	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4048	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4049	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4050	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4051	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4052,53	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4054,55	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4068	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4071	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4074,75	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R4076	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4077,78	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R4085	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4087	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4088	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R4090	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4098	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4099	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4107-09	ERJ6GEYJ680	M 68 OHM,J,1/10W	3	
R4110	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4111	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4112	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4125	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4126	ERJ6GEYJ274	M 270KOHM, J, 1/10W	1	
R4128	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R4202	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R4204,05	ERJ6GEYJ102	M 1KOHM, J, 1/10W	2	
R4206	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	1	
R4211,12	ERJ6GEYJ184	M 180KOHM, J, 1/10W	2	
R4213-16	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R4217,18	ERJ6GEYJ184	M 180KOHM, J, 1/10W	2	
R4219,20	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R4301,02	ERJ3GEYJ102	M 1KOHM, J, 1/16W	2	
R4303,04	ERJ6GEYJ184	M 180KOHM, J, 1/10W	2	
R4305	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R4307	ERJ6GEYJ102	M 1KOHM, J, 1/10W	1	
R4308-10	ERJ3GEYJ221	M 220 OHM, J, 1/16W	3	
R4312	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	1	
R4313,14	ERJ6GEYJ220	M 22 OHM, J, 1/10W	2	
R4315,16	ERJ6GEYJ221	M 220 OHM, J, 1/10W	2	
R4317-19	ERJ6GEY0R00	M 0 OHM, J, 1/10W	3	
R4321	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R4323	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R4900-03	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R4904,05	ERJ6GEYJ104	M 100KOHM, J, 1/10W	2	
R6001,02	ERJ12YK3R3	M 3.30HM, J, 1/2W	2	
R6021,22	ERJ12YK3R3	M 3.30HM, J, 1/2W	2	
R6050-52	ERJ6GEYJ103	M 10KOHM, J, 1/10W	3	
R9003	ERJ3GEYJ331	M 330 OHM, J, 1/16W	1	
R9004	ERJ3GEYJ471	M 470 OHM, J, 1/16W	1	
R9005	ERJ3GEYJ151	M 150 OHM, J, 1/16W	1	
R9006,07	EXB38V471J	RESISTOR ARRAY	2	
R9008	ERJ3GEYJ471	M 470 OHM, J, 1/16W	1	
R9010,11	ERJ3GEYJ331	M 330 OHM, J, 1/16W	2	
R9012	ERJ3GEYJ221	M 220 OHM, J, 1/16W	1	
R9013	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9014,15	ERJ3GEYJ471	M 470 OHM, J, 1/16W	2	
R9016,17	ERJ3GEYJ151	M 150 OHM, J, 1/16W	2	
R9018	ERJ3GEYJ821	M 820 OHM, J, 1/16W	1	
R9020,21	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9024,25	ERJ3GEYJ221	M 220 OHM, J, 1/16W	2	
R9026,27	ERJ3GEYJ103	M 10KOHM, J, 1/16W	2	
R9028	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9029,30	EXB38V471J	RESISTOR ARRAY	2	
R9031	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9032	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
R9034	ERJ6GEYJ270	M 27 OHM, J, 1/10W	1	
R9037	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9038,39	ERJ3GEYJ681	M 680 OHM, J, 1/16W	2	
R9041	ERJ3GEYJ221	M 220 OHM, J, 1/16W	1	
R9043	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9044	ERJ3GEYJ681	M 680 OHM, J, 1/16W	1	
R9045	ERJ3GEYJ682	M 6.8KOHM, J, 1/16W	1	
R9046,47	ERJ3GEYJ560	M 56 OHM, J, 1/16W	2	
R9048-56	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9057-65	EXB38VR000	RESISTOR ARRAY	9	
R9070	ERJ6GEYJ223	M 22KOHM, J, 1/10W	1	
R9095	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	1	
R9096	ERJ3GEYJ121	M 120 OHM, J, 1/16W	1	
R9097-01	ERJ3GEYJ101	M 100 OHM, J, 1/16W	5	
R9103	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9105	ERJ3GEYJ101	M 100 OHM, J, 1/16W	1	
R9106	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9107	ERJ3GEYJ223	M 22KOHM, J, 1/16W	1	
R9109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9110-12	ERJ3GEYJ272	M 2.7KOHM, J, 1/16W	3	
R9113	ERJ3GEYJ471	M 470 OHM, J, 1/16W	1	
R9114	ERJ3GEYJ152	M 1.5KOHM, J, 1/16W	1	
R9115	ERJ3GEYJ151	M 150 OHM, J, 1/16W	1	
R9116	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9117	ERJ3GEYJ151	M 150 OHM, J, 1/16W	1	
R9118	ERJ3GEYJ273	M 27KOHM, J, 1/16W	1	
R9119	ERJ3GEYJ271	M 270 OHM, J, 1/16W	1	
R9120	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R9121	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9122	ERJ3GEYJ471	M 470 OHM, J, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9123	ERJ3GEYJ821	M 820 OHM, J, 1/16W	1	
R9124	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9125	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9126,27	ERJ3GEYJ151	M 150 OHM, J, 1/16W	2	
R9128-30	ERJ3GEYJ102	M 1KOHM, J, 1/16W	3	
R9131	ERJ3GEYJ272	M 2.7KOHM, J, 1/16W	1	
R9132,33	ERJ3GEYJ102	M 1KOHM, J, 1/16W	2	
R9134-36	ERJ3GEYJ271	M 270 OHM, J, 1/16W	3	
R9137,38	ERJ3GEYJ471	M 470 OHM, J, 1/16W	2	
R9139,40	ERJ3GEYJ560	M 56 OHM, J, 1/16W	2	
R9141-43	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9144,45	ERJ3GEYJ471	M 470 OHM, J, 1/16W	2	
R9146	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9147	ERJ3GEYJ471	M 470 OHM, J, 1/16W	1	
R9148-50	ERJ3GEYJ560	M 56 OHM, J, 1/16W	3	
R9151-53	ERJ3GEYJ471	M 470 OHM, J, 1/16W	3	
R9154	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9157,58	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9166	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9167	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9170	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9171-73	ERJ3GEYJ560	M 56 OHM, J, 1/16W	3	
R9174	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9176	ERJ3GEYJ220	M 22 OHM, J, 1/16W	1	
R9177	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	1	
R9179	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9182	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9184	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9187	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9191	ERJ3GEYJ105	M 1MOHM, J, 1/16W	1	
R9192	ERJ3GEYJ220	M 22 OHM, J, 1/16W	1	
R9193	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9194	ERJ3GEYJ220	M 22 OHM, J, 1/16W	1	
R9195	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9196	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9197	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9199	ERJ3GEYJ220	M 22 OHM, J, 1/16W	1	
R9201,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9205	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9206-08	EXB38V330J	RESISTOR ARRAY	3	
R9209-11	ERJ3GEYJ221	M 220 OHM, J, 1/16W	3	
R9212	EXB38V330J	RESISTOR ARRAY	1	
R9216-18	ERJ3GEYJ221	M 220 OHM, J, 1/16W	3	
R9219	EXB38V330J	RESISTOR ARRAY	1	
R9220-22	ERJ6GEYJ103	M 10KOHM, J, 1/10W	3	
R9223	ERJ3GEYJ271	M 270 OHM, J, 1/16W	1	
R9224-26	EXB38V330J	RESISTOR ARRAY	3	
R9227,28	ERJ3GEYJ271	M 270 OHM, J, 1/16W	2	
R9229-31	ERJ14YJ331	M 330 OHM, J, 1/4W	3	
R9232	ERJ3GEYJ101	M 100 OHM, J, 1/16W	1	
R9233	ERJ3GEYJ103	M 10KOHM, J, 1/16W	1	
R9237	ERJ3GEYJ560	M 56 OHM, J, 1/16W	1	
R9239,40	ERJ3GEYJ560	M 56 OHM, J, 1/16W	2	
R9243	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9246	ERJ3GEYJ101	M 100 OHM, J, 1/16W	1	
R9247	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R9257	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R9260	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9263	ERJ3GEYJ105	M 1MOHM, J, 1/16W	1	
R9271	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9272	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9273	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9274	ERJ3GEYJ102	M 1KOHM, J, 1/16W	1	
R9275	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9276,77	ERJ3GEYJ221	M 220 OHM, J, 1/16W	2	
R9278-80	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9284	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R9288	ERJ3GEYJ101	M 100 OHM, J, 1/16W	1	
R9289	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9290	ERJ3GEYJ101	M 100 OHM, J, 1/16W	1	
R9291	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9293	ERJ6ENF5102	M 51KOHM, 1/10W	1	
R9294,95	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9297	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9300	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9302,03	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9304	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9313	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9314	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9315,16	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9318	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9320,21	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9322	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9323	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9324	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R9325	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R9344	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9345-47	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9349-51	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
RL800,01	TSEH0037	RELAY	2	K6B4ADA00002 △
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
SP1,P2	TESA122	SHIELD CLIP	2	
SP6-10	TESA122	SHIELD CLIP	5	
SP20-29	TESA122	SHIELD CLIP	10	
SP31-33	TESA122	SHIELD CLIP	3	
SP35-37	TESA122	SHIELD CLIP	3	
SW001-07	EVQ33405R	SWITCH	7	
SW041	TSED0012	SWITCH	1	K0F122A00142
T601A	ETJ23K12AM	INVARTOR TRANS	1	
T601B	ETJ23K12AM	INVARTOR TRANS	1	
T621A	ETJ23K12AM	INVARTOR TRANS	1	
T621B	ETJ23K12AM	INVARTOR TRANS	1	
TNR001	ENGE6105D	TUNER	1	
X1001	TSSA096	CRYSTAL	1	H0H400400007
X9501	TSSA148	CRYSTAL	1	H0J202500002
X9701	TSSA149	CRYSTAL	1	

11 Dimensions

(Units : mm)

